ORIGINAL



# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION III

1650 Arch Street
Philadelphia, Pennsylvania 19103-2029



#### <u>CERTIFIED MAIL - RETURN RECEIPT REQUESTED</u>

December 16, 1998

final offer

TO: <u>De minimis</u> Parties Listed in Attachment "A"

RE: Malvern TCE Superfund Site De Minimis Settlement Offer

Dear De Minimis Parties:

This letter constitutes the final <u>de minimis</u> settlement offer issued by the United States Environmental Protection Agency ("EPA") with regard to the Malvern TCE Superfund Site ("Site"). A list of those potentially responsible parties ("PRPs") for the Site that are eligible to participate in this <u>de minimis</u> settlement is enclosed (Attachment "A").

Due to the relatively small amount of hazardous materials that your company contributed to the Site, EPA is offering your company an opportunity to settle as a <u>de minimis</u> party. As a <u>de minimis</u> party, in return for a specified cash payment, EPA will agree not to sue or take any other civil or administrative action against your company with regard to the Malvern TCE Site.

The terms of this final <u>de minimis</u> settlement offer are set forth in the Final Administrative Order on Consent for <u>De Minimis</u> Settlement ("Final Consent Order")(Attachment "B"). Information describing the volume of waste attributed to each PRP and the projected total payment due under the terms of the settlement is set forth in Generator and Broker/Transporter Volumetric Ranking Summaries dated November 30, 1998 ("November 1998 VRS"). The November 1998 VRS are attached to the Final Consent Order as Appendix "C."

#### I. Settlement Background

This final <u>de minimis</u> settlement offers follows a letter dated April 30, 1998, in which EPA notified PRPs for the Site of the opportunity to participate in a <u>de minimis</u> settlement. With that letter, EPA enclosed a Draft Administrative Order by Consent ("Draft Consent Order") setting forth the terms by which PRPs that are eligible for this <u>de minimis</u> settlement, pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 ("CERCLA"), as amended, 42 U.S.C. § 9601, <u>et seq.</u>, could conclude their liability to the United States for response costs incurred or to be incurred at the Site. Also enclosed in EPA's April 30, 1998 letter, were Generator and Broker/Transporter Volumetric Ranking Summaries dated April 27, 1998 ("April 1998 VRS"), which listed the volume of waste attributed to each PRP and projected total payment due under the terms of the settlement embodied in the Draft Consent Order.

Customer Service Hotline: 1-800-438-2474

Subsequent to the mailing of the Draft Consent Order, EPA met with representatives of a Site <u>De Minimis PRP</u> Group, responded to numerous telephone calls from PRPs or their attorneys, and received and considered comments submitted by a number of PRPs with respect to the proposed settlement in general and specific terms set forth in the Draft Consent Order.

EPA's response to the comments received from these various sources is reflected in the enclosed Final Consent Order, which modifies some important and substantive terms of the Draft Consent Order.

Subsequent to the mailing of its April 30, 1998 letter, EPA also revised the April 1998 VRS in order to reflect changes required as a result of: 1) recently discovered data inputting errors that appeared in the April 1998 VRS<sup>1</sup>; 2) review and/or reconsideration of PRP challenges that had been submitted by PRPs (during the challenge periods provided by EPA) to prior draft volumetric summaries, including the April 1998 VRS; and 3) identification of additional broker/transporter transactions relating to the Site.

## II. Summary of Settlement Offer in this Final Consent Order

#### A. Eligibility

The eligibility criteria remain unchanged. Small waste contributors eligible for deminimis settlement have been identified by EPA by utilizing information set forth in the November 1998 Summaries. A PRP is eligible to participate in this settlement if its volumetric contribution of hazardous substance to the Site is at or less than .75% of the total volume attributed to the Main Plant Area ("MPA") of the Site, as set forth in the November 1998 Summaries.<sup>2</sup> Generator PRPs should refer to the "MPA %" column contained in the Generator VRS in order to determine their MPA %. Broker/transporter PRPs should add their MPA % listed on both the Generator VRS and the Broker/Transporter VRS, in order to determine their total MPA %.<sup>3</sup>

During EPA's review of the April 1998 VRS prior to this mailing, a number of data entry errors were detected and corrected. These corrections led to a decrease in drum counts for a number of PRPs. As a result, most parties listed in the August 1998 VRS will have an increase in volume due to the decrease in total drums transported to the Site.

EPA has established a <u>de micromis</u> cutoff at 1.5 drums or less. At present, EPA does not foresee a need to pursue settlements with <u>de micromis</u> parties. EPA will, however, pursue settlements with <u>de micromis</u> parties if there is a threat of, or an actual suit by, other PRPs at the Site.

Please refer to the documents entitled "Malvern TCE Volumetric Ranking Summaries Overview and Methodology" and "VRS Explanation Sheet" (Attachment "C"), for a

In signing the Final Consent Order, each <u>De Minimis</u> Respondent will certify that the company it represents qualifies for the <u>de minimis</u> settlement eligibility terms (See Final Consent Order, Section X, Certification). Please note that under the terms of the settlement, the United States may void the agreement with respect to any individual party if, among other things, a <u>De Minimis</u> Respondent contributed more than .75% of the total volume attributed to the MPA, or if the certification provided by the <u>De Minimis</u> Respondent is false or materially inaccurate.

Please note that this may be the only <u>de minimis</u> settlement offer that EPA will make in this case. You should be aware that if you do not join in the <u>de minimis</u> settlement, you may continue to be potentially liable to EPA and/or for contribution to other parties at the Site.

#### B. Amount of Cash Payment

The Final Consent Order establishes a total payment each eligible PRP must pay to settle its liability to the United States. This total payment is reflected in the "Total <u>De Minimis</u> Payment" column provided in the November 1998 VRS. The total payment consists of the following costs relating to the Site:

- (1) a payment amount for past costs incurred by EPA;
- (2) a payment for estimated future costs; and
- (3) a premium added to the estimated future costs.

The payment amounts provided in the November 1998 VRS are based on calculations of estimated costs for cleanup of the Site. For purposes of the <u>de minimis</u> settlement, total future response costs are based on estimates set forth in the Record of Decision issued by EPA in November 1997 for the Site.

# C. <u>Installment Payments</u>

In response to comments received from PRPs to the Draft Consent Order, EPA has included in its cost estimates only remedial, not removal, oversight costs. Remedial oversight costs are estimated to be \$200,000.00. This reduction in oversight costs included in the costs estimates is consistent with the decision by the Third Circuit Court of Appeals in <u>United States v. Rohm and Haas</u>, 2 F.3d 1265 (3d Cir. 1993).

EPA has been asked by PRPs to consider installment payments in order to encourage participation in this <u>de minimis</u> settlement by those parties that are willing to enter into a settlement but would be unable to participate unless given an opportunity to make payments over a longer period of time. In response to these requests, EPA has provided in the Final Consent Order an installment payment option pursuant to which a party may pay its <u>de</u>

more detailed description of the methodology utilized and information contained in the November 1998 VRS.

minimis settlement payment in two equal installments. The first installment will be due within thirty (30) calendar days of the effective date of the Consent Order, and the balance will be due within one year of the effective date of the Consent Order.

## D. Failure to Make Payment

Please note that pursuant to Section IX of the Consent Order, if any <u>De Minimis</u> Respondent fails to make payment within thirty (30) calendar days of the payment becoming due, the Consent Order shall be terminated as to that <u>De Minimis</u> Respondent. Late payments (those paid after the due date but within thirty (30) calendar days of the payment becoming due), shall accrue interest, which shall be assessed to such <u>De Minimis</u> Respondent.

#### E. Covenant Not to Sue

In return for the cash payment specified in the November 1998 VRS, EPA will provide the Covenant Not to Sue as set forth in Section XI, Paragraph 26, of the Final Consent Order. The settlement also provides protection against contribution actions that could be brought against <u>De Minimis</u> Respondents concerning the Site, to the extent provided in Sections 113(f)(2) and 122(g)(5) of CERCLA, 42 U.S.C. §§ 9613(f)(2) and 9622(g)(5).

#### F. Form of the Settlement

This settlement offer is being made only to the addressees of this letter, for a limited period of time. Should you wish to accept this settlement offer, you must do so in accordance with the terms provided in the Final Consent Order. Following the period that you have for joining the settlement, EPA will initiate a thirty (30) day public comment period pursuant to Section 122(i) of CERCLA, 42 U.S.C. § 9622(i). At the completion of the comment period, EPA will execute the agreement, unless it modifies or withdraws its consent pursuant to Sections XVI and XVII of the Consent Order.

# G. Required Actions for Participation in this Settlement

# (1) <u>Deadline for Submission of Signature Pages</u>

In order to join this settlement, you must execute and submit to EPA a signed signature page to the enclosed Consent Order by January 29, 1999. DO NOT SEND ANY SETTLEMENT PAYMENT AT THAT TIME.

De Minimis PRPs that have raised ability to pay concerns with EPA may defer indicating their acceptance of this offer until after EPA has reviewed and analyzed these parties' financial claims.

# (2) Contact Person

Please forward your signature pages to:

Joan A. Johnson (3RC41)
Assistant Regional Counsel
United States Environmental Protection Agency
Region III
1650 Arch Street
Philadelphia, PA 19103-2029

## (3) Deadline for Payment and Mechanics of Payment

Sometime after January 29, 1999, EPA will notify those parties that have executed and submitted their signature pages in a timely manner of the effective date of the Final Consent Order (refer to Section XIX, Paragraph 40, Effective Date). You will then have thirty (30) days from EPA's issuance of notice of the effective date to make the payment required by the Final Consent Order. Do not send a payment until the EPA notifies you that the Final Consent Order is effective.

If you have any questions about the terms of the Final Consent Order or with respect to information relating to your company as set forth in the November 1998 VRS, please direct your inquiries to:

Joan A. Johnson (3RC41)
Assistant Regional Counsel
United States Environmental Protection Agency
Region III
1650 Arch Street
Philadelphia, PA 19103-2029

Please be advised that this letter is sent for informational purposes only and cannot substitute for a careful review of the Final Consent Order.

Sincerely,

Joan A. Johnson

**Assistant Regional Counsel** 

# ORIGINAL

Attachment A 
Attachment B 
Attachment C 
List of <u>De Minimis</u> Parties

Final Administrative Order on Consent for <u>De Minimis</u> Parties

Volumetric Ranking Summaries Overview and Methodology

Volumetric Ranking Summaries Challenges and EPA Response

Attachment D - Comprehensive Mailing List (All Site PRPs)

# Attachment A

List of De Minimis Parties

List of De Minimis Parties¹ (Alphabetical Order)

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\*\* A I W Frank

Acro Labels Mr. Bob Reagan, President 2531 Wyandotte Road Willow Grove, PA 19090

A & J Screw Machine Products Mr. Joseph A. Harmer 32 Hamilton Street P.O. Box 278 Chalfont, PA 18914-2804

\*\* ADEC

A & J Screw Machine Products Mr. Joseph A. Harmer 24 Hillside Avenue Chaffont, PA 18914-2804 Adelphia Graphic Systems (AGS) Ms. Paula Inforzato, Vice President 302 Commerce Drive Exton, PA 19341

A. Johnson & Company Incorporated President 215 Welsh Pool Road Lionville, PA 19353

\*\* Aero Plating

A & L Handles Mr. Philip K. Stonier, Vice President 244 Shoemaker Road Pottstown, PA 19464

\*\* Agitar, Div. of Air Buensod Incorporated

Accumetrics Mr. Paul Pitcher, President 134 Adams Street Royersford, PA 19468 Airline Hydraulics Corporation Mr. Joseph Laughran, President I-95 & Street Road Bensalem, PA 19020

\* Accuracy Scientific

Airworks c/o General Electric Kirk R. McFarlane, Esq. 640 Freedom Business Center King of Prussia, PA 19406

\* Address investigation currently being conducted.

Please refer to Comprehensive Mailing List for addresses of counsel representing De Minimis parties.

<sup>\*\*</sup> Party has been identified as an orphan.

List of De Minimis Parties¹ (Alphabetical Order)

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11/30/98 ORIGINAL

Airworks
c/o UNC Airworks
Ted Coyle, Esq.
101 East Orden Boulevard
Millville, NJ 08332

Alfa-Laval Separation Incorporated c/o Tetra-Laval Mr. Quinton Jackson, President 9201 Wilnot Road P.O. Box 840 Kenosha, WI 53141

Allister Manufacturing c/o Allstar Manufacturing President 311 Willowbrook Lane West Chester, PA 19383

Amchem c/o Henkel Corporation Ken Arnold, Esq. 49 Valley Drive Furlong, PA 18925

American Electronics Laboratories c/o AEL Industries Patrick S. Till Environmental/Safety Engineer 305 Richardson Road Lansdale, PA 19446-1485

\*\* Ames Supply

Ametek Incorporated
Mr. Thomas A. Deeney
Director of Corporate Compliance
Station Square
Paoli, PA 19301

AMF Incorporated c/o Minstar Incorporated Ms. Mary McConnell, Vice President 100 South 5th Street, Suite 2400 Minneapolis, MN 55452

AMP Corporation Mr. William Hudson, President P.O. Box 3608 Harrisburg, PA 17105

Amuneal Manufacturing Company Mr. Larry Maltin, President 4737 Darrah Street Philadelphia, PA 19124-2705

Anchor Darling Company Mr. Brian McGarvey, President 7 East Wynnewood Road Wynnewood, PA 19096

Angelo c/o Angelo Brothers Company Barton A. Pasternak, Esq. Vice President & General Counsel 12401 McNulty Road Philadelphia, PA 19154-1099

Ark Products
Mr. Ronald A. King
Vice President
3320 Willow Street Pike South
Willow Street, PA 17584

\* Artco

<sup>&</sup>lt;sup>1</sup> Please refer to Comprehensive Mailing List for addresses of counsel representing De Minimis parties.

<sup>\*</sup> Address investigation currently being conducted.

<sup>\*\*</sup> Party has been identified as an orphan.

List of De Minimis Parties¹ (Alphabetical Order)

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 Asplundh Manufacturing Company Mr. Carl Asplundh, President
 708 Blair Mill Road
 Willow Grove, PA 19090 Berg Laboratories President 130-C Harding Avenue Bellmawr, NJ 08031

\*\* Aston-Hill Company

Biddle Instruments Company c/o Aval International Mr. Tom Evans, President 510 Township Line Road Blue Bell, PA 19422

Athena Controls c/o Inductotherm Industries Incorporated J. D. Visco 10 Indel Avenue Rancocas, NJ 08073

Bilgram Gear Company Mr. David Winther, President 8 Union Hill Road West Conshohocken, PA 19428

\* Auto Pack

\* Bishop Tube Company

B.P. Oil Ms. Cheryl A. Foerstner Law Department 200 Public Square 11-3454-C Cleveland, OH 44114-2375

Bo Peep Cleaners President 18 Doylestown Shopping Center Doylestown, PA 18901

Beemer Engineering c/o Beemer Precision Company Incorporated Mr. H. Meyers, President 230 New York Drive Fort Washington, PA 19034 Boeing c/o Boeing Company President Route 291 & Industrial Parkway Ridley Park, PA 19078

Bendtru Company c/o Powers Equipment Company Incorporated Mr. E. Robert Powers, CEO 500 Jacksonville Road Hatboro, PA 19040

Boekel Industries Mr. Al Bush, President 855 Pennsylvania Avenue Feasterville, PA 19053

\* Address investigation currently being conducted.

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Please refer to Comprehensive Mailing List for addresses of counsel representing De Minimis parties.

List of De Minimis Parties' (Alphabetical Order)

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OPIGINAL

\* Boyertown Packing Company

C.K. Systematics Incorporated c/o Systematics Incorporated Mr. James L. Conley, CEO 1025 Saunders Lane West Chester, PA 19380

Brandt Corporation c/o Lefebure Mr. Joel Patton, President 308 29th Street NE Cedar Rapids, IA 52460 Camdel Metals Mr. Millard Vaughn, Plant Manager Drawer H Revco Industrial Park Camden, DE 19934

\*\* Brittany's Ltd.

Cantol Incorporated Mr. Elmer E. Snethen Executive Vice President 2211 North American Street Philadelphia, PA 19153

Brooks Instrument Mr. Robert Heffernan, President 407 West Vine Street Hatfield, PA 19440 Carvel Hall Incorporated c/o Syratech Incorporated Mr. Leonard Florence, President 175 McClellan Highway East Boston, MA 02128-9115

Brumbaugh Industries Mr. Charles Brumbaugh, President Route 291 Eddystone, PA 19022 Chem Cell Corporation Mr. Charles Tirell, President P.O. Box 296 Hatboro, PA 19040

Bunnell Plastics Incorporated c/o Furon Company Mr. J. Michael Hagan, CEO 29982 Ivy Glenn Drive Laguna Indel, CA 92677 Chem-Par c/o Liphatech Dr. Author A. Nethery Vice President of Research & Development 3101 West Custer Avenue Milwaukee, WI 53209

C.K. Systematics Incorporated c/o C.K. Worldwide Mr. Arthur Klepper, President P.O. Box 1636 Auburn, WA 98071

\* Chem-Solv

<sup>&</sup>lt;sup>1</sup> Please refer to Comprehensive Mailing List for addresses of counsel representing De Minimis parties.

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List of De Minimis Parties<sup>1</sup> (Alphabetical Order)

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Chobert Associates

color Chobert Manufacturing Corporation
Mr. Frank J. Kearney, Jr.

Vice President

1018 Sanders Lane

West Chester, PA 19380

\*\* Connecticut Mixed

Chrono-Log Corporation Mr. Arthur Freilich, President 2 West Park Road Havertown, PA 19083-4691 Container Research Corporation Mr. Christopher J. Pass Industrial Engineer Hollow Hill Road P.O. Box 0159 Glen Riddle, PA 19037

Classic Coachworks Mr. Harry Smith, President 7310-18 West Chester Pike Upper Darby, PA 19082 Contamination Control Incorporated c/o Microdot Connectors Mr. Ernest Hartland, President 306 Pasadena Avenue South Pasadena, CA 91030

Clifton Precision c/o Litton Industries Incorporated Jill Palmer, Esq. Senior Environmental Counsel 1725 Jefferson Davis Highway, Suite 601 Arlington, VA 22202

\* Continental Vanguard Incorporated

Coatings For Industry Incorporated Mr. James Klotz, President 319 Township Line Road Souderton, PA 18964

\*\* Control Switch

Cobra Wire & Cable Company Mr. Bart Reitter, President 2930 Turnpike Drive Hatboro, PA 19040 Controls Service & Engineering President 300 Second Street New Cumberland, PA 17071

Concurrent Computer Corporation Karen G. Fink, Esq. Vice President & General Counsel 2101 West Cypress Creek Road Fort Lauderdale, FL 33309 Cook Specialty Company Mr. Thomas A. Panzarella, President North Second Street P.O. Box 129 Green Lane, PA 18054-0129

<sup>1</sup> Please refer to Comprehensive Mailing List for addresses of counsel representing De Minimis parties.

Address investigation currently being conducted.

<sup>\*\*</sup> Party has been identified as an orphan.

List of De Minimis Parties¹ (Alphabetical Order)

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ODIGINAL

 Crown Marketing Equipment Company President
 301 Ivyland Road
 Ivyland, PA 18974

\*\* Delaware Container Co. Inc.

CSS International Corporation Mr. Roger T. Nazeley, President 2061 East Glennwood Avenue Philadelphia, PA 19124

\*\* Delco Wire & Cable, Inc./Delco Elec.

CW Industries
Mr. Kalman Lifson, President
130 James Way
Southampton, PA 18966

Delmaco Manufacturing Incorporated President 3 Cedar Creek Avenue Georgetown, DE 19947

Danco Tool & Mold Company Mr. Nicholas Fagan, President P.O. Box 448 Wheatland and Melon Avenue Phoenixville, PA 19460

Deltron Incorporated Mr. Aaron Anton, President P.O. Box 1369 North Wales, PA 19454

Data Media Incorporated c/o DMC Incorporated Mr. Thomas Rainone, President 7025 Central Highway Pennsauken, NJ 08109

Dentronix Incorporated Ms. Cíndy Monroe, President 101 Steamwhistle Drive Ivyland, PA 18974

David K. Robson Incorporated Mr. Michael Anastas, President 738 Maryland Avenue Prospect Park, PA 19076 Dettra Flag Company Mr. Elmer Bauer, President P.O. Box 408 Oaks, PA 19456

Decision Data c/o Decision One Mr. Steve Felice, President 50 East Swedesford Road Frasier, PA 19355 DeVilbiss Company c/o DeVilbiss Healthcare Incorporated Mr. Ray Dyre, President P.O. Box 635 Somerset, PA 15501

<sup>1</sup> Please refer to Comprehensive Mailing List for addresses of counsel representing De Minimis parties.

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List of De Minimis Parties¹ (Alphabetical Order)

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Display Corporation of America c/o TSG Merchandising Incorporated Mr. Paul Schmidt, President 1250 Easton Road, Suite 200 Horsham, PA 19044

Diversified Electronic Corporation Mr. Bernard Shurman, President 4969 Wakefield Street Philadelphia, PA 19144

**Dixon Industries Corporation** c/o Furon Company Mr. Jerry Noonan, President 29982 Ivy Glenn Drive Laguna Nigel, CA 92677

Doehler-Jarvis Mr. Robert J. Jacobson Director of Environmental Control P.O. Box 902 Toledo, OH 43697-0902

\*\* Dorado Fabrics

Drexelbrook Engineering Mr. Fred Maltby, CEO 205 Keith Valley Road Horsham, PA 19044

\*\* Dynamic Services

E. Hopkins Company Al Pappas, President 3427 South Lawrence Street Philadelphia, PA 19148

E.I.T. Incorporated c/o Enterra Instrumentation Technology Mr. Howard Lawrence, President P.O. Box 744 Sunbury, PA 17801

E/M Corporation c/o West Lafayette Corporation Mr. Robert McDonald, President & CEO One Great Lakes Boulevard West Lafayette, IN 47906

East West Label Company Incorporated Mr. Christopher Wilson, President P.O. Box 7480 St. Davids, PA 19087

Eaton c/o Eaton Corporation Mr. Stephen Hardis, CEO Eaton Center Cleveland, OH 44114

Elco Corporation c/o Prentice Hall Corporate Systems Mr. Benedict Rosen, CEO 319 Market Street Harrisburg, PA 17101

Electro Platers of York incorporated Mr. David Sollenberger, President 209 East Willow Street Wrightsville, PA 17368

Please refer to Comprehensive Mailing List for addresses of counsel representing De Minimis parties.

Address investigation currently being conducted.

<sup>\*\*</sup> Party has been identified as an orphan.

List of De Minimis Parties¹ (Alphabetical Order)

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\* Electroloy

F B F Industries Incorporated Mr. Edward McAllister, President Three Glenhardie Corporate Center 1265 Drummers Lane, Suite 304 Wayne, PA 19087-1570

Ellisco c/o Ellisco Industries Mr. Charles Foster, CEO & President 8901 Yellow Brick Road Baltimore, MD 21237 Fabric Development Mr. Peter Schah, President P.O. Box 462 1217 Mill Street Quakertown, PA 18951

Emeco c/o Emeco Industries Incorporated Mr. Jay Buchbinder, CEO 805 West Elm Avenue Hanover, PA 17331 Fairfax Cleaners c/o Fairfax Valet Cleaners Mr. Arthur Kahn, Owner 3 Fairfax Boulevard Wilmington, DE 19803

Empire Abrasive & Equipment Corporation Mr. John Gauntt, Controller 2101 West Cabot Boulevard Langhorne, PA 19047-1893

Far East Foods Mr. Luke Marano, President 4950 South Island Road Philadelphia, PA 19153

EMR Photoelectric c/o Schlumberger EMR Mr. John Hunka, President 20 Wallace Road Princeton Junction, NJ 08550

\*\* Fendt Finding Co., Inc.

Ervins Crafts c/o Buchart Horn Incorporated Mr. Timothy M. Yohe, PE The Industrial Plaza of York 445 West Philadelphia Street P.O. Box 15040 York, PA 17405-7040

\*Fergusson

\*\* Ext - Corporol

Fluid Power Incorporated Mr. David Albrecht, CEO 534 Township Line Road Blue Bell, PA 19422

- Please refer to Comprehensive Mailing List for addresses of counsel representing De Minimis parties.
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List of De Minimis Parties¹ (Alphabetical Order)

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Formation Incorporated Mr. Chet Fennell, President 121 Whittendale Drive Moorestown, NJ 08057

Formosa Plastics Corporation, Delaware c/o Formosa Plastics Corporation, USA Michael G. Karlis, Esq. 9 Peach Tree Hill Road Livingston, NJ 07039-5702

Franklin Mint Howard P. Lucker, Esq. Vice President & General Counsel Franklin Center U.S. Route 1 Franklin Center, PA 19091

Fraser-Volpe Corporation Mr. Joseph Volpe, President 1025 Thomas Drive Warminster, PA 18974

Frontier Chemical Waste Process President P.O. Box 1471 4626 Royal Avenue Niagara Falls, NY 14303

FTC Hazardous Incorporated c/o Fact Environmental Services c/o Hancock Industries Mr. Stewart Golen, CEO 7333 Milnor Street Philadelphia, PA 19136

G. K. Garrett Corporation Mr. Albert H. Voight, President 2914 North 16th Street Philadelphia, PA 19132 Gala Industries Mr. Alan Chäpman, President & CEO 6800 Westfield Avenue Pennsauken, NJ 08110

Gas Springs c/o Stabilus Gas Spring Company Mr. Thomas Blomquist, President 92 County Line Road Colmar, PA 18915-9607

Gateway Terminal Mr. John Pontecorro, President P.O. Box 179 Carteret, NJ 07008

General Electric c/o Lockheed Martin Corporation Ms. Eileen Wisser Manager, Environment, Health, and Safety 230 East Mall Boulevard King of Prussia, PA 19406

General Electric c/o Lockheed Martin Missiles and Space Mr. Mark Posson Manager Environmental Protection Program ORGN. 47-10, Building 101 1111 Lockheed Martin Way Sunnyvale, CA 94089

Giles & Ransome Mr. Michael D. Barnasevitch Risk Management Coordinator 2975 Galloway Road Bensalem, PA 19020

\*\* Giltech, Inc.

Please refer to Comprehensive Mailing List for addresses of counsel representing De Minimis parties.

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List of De Minimis Parties¹ (Alphabetical Order)

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Glah Brothers Incorporated c/o Formal Affairs Incorporated President 41 South York Road Hatboro, PA 19040 H-V Industries Incorporated c/o Crown Cork & Seal Company Incorporated William T. Gallagher, Esq. P.O. Box 6208 9300 Ashton Road Philadelphia, PA 19136

\*\* Globe Solvents

\*\* Hahn Truck Sales

Gould Incorporated c/o Gould Electronics Incorporated Michael Veysey, Esq. 34929 Curtis Boulevard Eastlake, Ohio 44095 Hale Pumps Incorporated c/o Hale Products Mr. Wade Roberts, President 700 Spring Mill Avenue Conshohocken, PA 19428

Graphic Packaging Corporation Mr. Thomas Warlick Corporate Environmental Manager 350 Griggs Road Clover, SC 29710

Heel Company William H. Nehrkorn II, Esq. P.O. Box 8676 Chattanooga, TN 37414

Green Tweed Company Mr. Henry Delfiner, CEO 2075 Detwiler Road Kulpsville, PA 19433 Herman Goldner Company Incorporated Ms. Emma L. Anello Administrator 7777 Brewster Avenue Philadelphia, PA 19153

Gulf & Western c/o Viacom International Incorporated Mr. Suner Redtone, CEO 1515 Broadway New York, NY 10036

High Energy Company Mr. Dick Robbins, President Lower Valley Road Parkesburg, PA 19365

\*\* H & L Cleaners

Hollingsworth c/o John R. Hollingsworth Company Mr. Ray E. White Jr., Secretary 218 Westridge Gardens Phoenixville, PA 19460

\* Address investigation currently being conducted.

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<sup>&</sup>lt;sup>1</sup> Please refer to Comprehensive Mailing List for addresses of counsel representing De Minimis parties.

List of De Minimis Parties¹ (Alphabetical Order)

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Honeywell Instruments
Ms. Roberta B. Olsen
Honeywell Plaza
P.O. Box 524
Minneapolis, MN 55440-0524

J & J Spill Mr. C. Philip Ettinger, President 2949 Felton Road Norristown, PA 19403

Hulltronics c/o Hull Corporation President Davisville Road Hatboro, PA 19040

J. W. Rex Company John W. Rex, President 8th Street & Valley Forge Road Lansdale, PA 19446

\* Hurst Performance

James Spring & Wire Company Mr. Timothy Morris, General Manager 6 North Bacton Hill Road Malvern, PA 19355

Imperial Specialty
Ms. Portia Kirkpatrick, President
P.O. Box 635
Pottstown, PA 19464

Jetshapes Incorporated c/o Interlake ARD Corporation President 550 Warrenville Road Lisle, IL 60532-4387

\*\* Industrial Systems Design

John Evans & Sons Incorporated Mr. G. D. Bennett, President P.O. Box 885 Spring Avenue Lansdale, PA 19446

\*\* Inland Pumping & Dredging

Johnson Company Mr. George Stoltsteimer, President 1765 Woodhaven Drive Bensalem, PA 19020

Iron Bound Heat Treating Company Mr. John Ross, President 304 Cox Street Roselle, NJ 07203 Johnson Mathey Mr. Frank J. Opet Vice President, Health, Safety, & Environmental Affairs 2001 Nolte Drive West Deptford, NJ 08096

<sup>&</sup>lt;sup>1</sup> Please refer to Comprehensive Mailing List for addresses of counsel representing De Minimis parties.

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List of De Minimis Parties¹ (Alphabetical Order)

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\*\* K S O Industries

Kulicke & Soffa Mr. Scott Kulicke, President 2101 Blair Mill Road Willow Grove, PA 19090

K-D Tool Manufacturing c/o Robert H. Devenney-VP Finance/Administration Dahaher Tool Group-Professional Tool Division 805 Estelle Drive P.O. Box 3767 Lancaster, PA 17604-3767

L & S Tool & Machine Company Mr. Terry Livingstone, President 140 Derry Court York, PA 17402

Kawneer Corporation Mr. Daniel Good, President 555 Guthridge Avenue Norcross, GA 30092 Laminators Incorporated Mr. J. David Thompson, President 3195 Penn Avenue Hatfield, PA 19440

Keystone Transformer Mr. Johnny Fox, President 110 Pottstown Avenue Pennsburg, PA 18073 Lancaster Machinery Mrs. Doris Cohen 835 Glenwood Drive York, PA 17403

\* Kosempel

Lancaster Machinery c/o PDS Paint Incorporated President 717 Fountain Avenue Lancaster, PA 17601

Krautkramer-Branson Incorporated c/o Emerson Electric Mr. Charles Knight, General Manager 8000 West Florissant Avenue St. Louis, MO 63136

Lavelle Aircraft Company Mr. Albert Bailey, President 275 Geiger Road Philadelphia, PA 19115

KSM Fastening Systems Incorporated c/o Blount International Incorporated Richard H. Irving III, Esq. 4520 Executive Park Drive Montgomery, AL 36116-1602 Leeds & Northrop Company c/o General Signal Corporation President One High Ridge Park P.O. Box 10010 Stamford, CT 06904-2010

<sup>&</sup>lt;sup>1</sup> Please refer to Comprehensive Mailing List for addresses of counsel representing De Minimis parties.

<sup>\*</sup> Address investigation currently being conducted.

<sup>\*\*</sup> Party has been identified as an orphan.

List of De Minimis Parties¹ (Alphabetical Order)

PAGE: 13 ORIGINAL

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Lincoln c/o Pentair Corporation Mr. Winslow Buxton, President 1500 County Road B2 West, Floor 4 Saint Paul, MN 55113

\* Manorgraphics

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\* Lovekin Corporation

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\*\* Lowry's

Matheson Instrument Mr. Donald Rumlow, President 30 Seaview Drive Secaucus, NJ 07094

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Matthew International Manager of Environmental Health & Safety Two Northshore Center Pittsburgh, PA 15212-5851

\*\* Mack Wayne Plastics

McClarin Plastics Mr. Todd Kennedy, President 600 Linden Avenue Hanover, PA 17331

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List of De Minimis Parties¹ (Alphabetical Order)

PAGE: 14

1/98 COICINAL

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McHugh Railroad Maintenance Equipment Company Mr. James McHugh Jr., CEO 225 Lincoln Highway Fairless Hills, PA 19030

\* Monitor Systems

Meade Packaging Mr. Samuel Benedict, President 10 West 2nd Dayton, OH 45463 Moore Products Mr. William Moore, President Sumneytown Pike Spring House, PA 19477

Met-Fin Mr. Gary Lukens, President P.O. Box 1127 4th Street North Wales, PA 19454 Napp Chemical Mr. Hans Kirchgaessner, President P.O. Box 893 299 Market Street Saddlebrook, NJ 07663

Mida Development Edward T. Mida, President P.O. Box 3529 Hampton, VA 23663 Narco Avionics c/o Telonic Berkeley Mr. Steve Hilbert, Vice President 270 Commerce Way Fort Washington, PA 19034

\*\* Mida Manufacturing

National Metal Crafters Mr. James Redd, President 1405 East Oxford Street Philadelphia, PA 19125

\*\* Mitchell Specialty

\*\* National Solvents Inc.

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List of De Minimis Parties¹ (Alphabetical Order)

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Neutronics President 820 Springdale Drive Exton, PA 19406 Oxford Metal Products c/o Al Feldman Penns Landing Square 130 Spruce Street, Unit 34A Philadelphia, PA 19106

NGK Metals Ms. Lynne Woodside Supervisor, Environmental Affairs Tuckerton Road P.O. Box 13367 Reading, PA 19612-3367

Paris Business Forms c/o Paris Business Products President 122 Kissel Road Burlington, NJ 08016

Ni-Chro c/o Ni-Chro Finishing Mr. William Weidemeyer, CEO 803 West Callowhill Street Perkasie, PA 18944

Penflex Incorporated Ms. Carol Barker, President 271 Lancaster Avenue Frazer, PA 19355

Norco Finishing President 238 Root Avenue Pottstown, PA 19465 Penguin Industries Mr. Robert McNeil, President Airport Industrial Mall Coatesville, PA 19320

North Industrial Chemicals Mr. William N. Fay, Vice President 609 East King Street P.O. Box 1904 York, PA 17403 Penn Airborne Products c/o Transacoil Incorporated Mr. Robert Carlson, President P.O. Box 9011 Valley Forge, PA 19485

North Penn Polishing & Plating Mr. David Otto, President P.O. Box 370 40 West Park Avenue Sellersville, PA 18960 Penn Dye & Finishing c/o Gold Mills Incorporated Mr. Nathaniel Weisler, CEO 137 Tulpehocken Street Pine Grove, PA 19485

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List of De Minimis Parties<sup>1</sup> (Alphabetical Order)

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COICINAL

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Pennwalt Corporation c/o Alfa-Laval Mr. Bernard Azoulay, CEO 955 Mearns Road Warminster, PA 18974 Petrocon c/o Safety Kleen President 1000 Randall Road Elgin, IL 60103

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Permutit c/o Zurn Industries Mr. L. Vernon Pace, CEO One Zurn Place Erie, PA 16505

\* Philco Ford

<sup>&</sup>lt;sup>1</sup> Please refer to Comprehensive Mailing List for addresses of counsel representing De Minimis parties.

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List of De Minimis Parties¹ (Alphabetical Order)

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Pitman Corporation Mr. Kent Fretz, General Manager 343 Godshall Drive Harleysville, PA 19438 Princo Instruments Incorporated Mr. Gilbert Pfaff, President 1020 Industrial Highway Southampton, PA 18966

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Pocono Foundry Incorporated President/CEO P.O. Box 73 Stroudsburg, PA 18360 Pyco Incorporated Mr. John Metzger Jr., President 600 East Lincoln Highway Penndel, PA 19047

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List of De Minimis Parties¹ (Alphabetical Order)

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ORIGINAL

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\*\* Richard Hurst

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Sanivan Labs President 5129 F Street Philadelphia, PA 19124

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\*\* Repco

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Reynolds Cleaners Mr. Mu Yong Chong 149 South Walnut Street Kennett Square, PA 19348

\* Sermetel

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List of De Minimis Parties¹ (Alphabetical Order)

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\* Singer Company

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List of De Minimis Parties<sup>1</sup> (Alphabetical Order)

11/30/98

PAGE: 20 ORIGINAL

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Superior Metal Products Mr. Dennis J. Hinger, Project Engineer P.O. Box 595 Pottstown, PA 19464

Sprague - Griffiths Division c/o Textron Patricia Bisshopp, Paralegal 40 Westminster Street Providence, RI 02903

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List of De Minimis Parties¹ (Alphabetical Order)

PAGE: 21 11/30/98

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Thermoseal Glass Corporation President 400 Water Street Gloucester City, NJ 08030

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\* Technitrol

\*\* U S Electronic Services Corp.

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List of De Minimis Parties¹ (Alphabetical Order)

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AMINIO

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\* Waste Consulting & Brokerage

\*\* United Chem - Con Corp.

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\*\* Wave Energy Systems

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Westinghouse Mr. Gary Clark, President 11 Stanwix Street Pittsburgh, PA 15222

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List of De Minimis Parties¹ (Alphabetical Order)

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COGINA

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<sup>\*</sup> Address investigation currently being conducted.

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# Attachment B

Final Administrative Order on Consent for De Minimis Parties

# Attachment C

Volumetric Ranking Summaries/ Overview and Methodology

Volumetric Ranking Summaries/ Challenges and EPA's Response

# Malvern TCE Volumetric Ranking Summaries/Overview and Methodology

This document provides a general overview and describes methodology utilized by EPA in the preparation of the Malvern TCE Superfund Site ("Site") Volumetric Ranking Summaries dated November 30, 1998 ("Summaries"). A description of *de minimis* settlement eligibility and requirements also is provided.

#### I. VOLUMETRIC RANKING SUMMARIES: OVERVIEW

The volumetric ranking summaries reflect revisions made by EPA to draft Site volumetric ranking summaries prepared by EPA and distributed to potentially responsible parties ("PRPs") for the Site on November 3, 1997 and April 30, 1998. Among other things, the attached Summaries incorporate information obtained by EPA as a result of: a) EPA's review and/or reconsideration of challenges submitted by PRPs to EPA to prior draft Site volumetric ranking summaries; b) review by EPA of Site records; and c) EPA research into the continued existence and viability of various PRPs identified in connection with the Site.

## A. Generator and Transporter Volumetric Ranking Summaries

EPA has prepared two volumetric ranking summaries for the Site: a Generator Volumetric Ranking Summary ("Generator VRS") and a Broker/Transporter Volumetric Ranking Summary ("Broker/Transporter VRS"). As a result of EPA's review of Site records documenting transactions between PRPs and Chemclene, a number of brokers/transporters have been identified. The Summaries are intended to reflect all generator and broker/transporter PRP transactions at the Site and to attribute to each generator and broker/transporter identified at the Site, the full volume of waste into the Site contributed by each, as reflected in Site records. All documented shipments of waste to the Site are reflected in the Generator VRS; transactions involving brokers/transporters also are reflected in the Broker/Transporter VRS. See Section II.D. of this Overview and Methodology for additional details relating to generator and broker/transporter transactions.

#### B. Information contained in Summaries

In general, the attached Summaries provide the following for each PRP:

# 1. The volume of waste each PRP contributed to the Site.

This volume reflects, for each PRP, the total volume of waste, as measured in 55-gallon drum units, each PRP contributed to the Former Disposal Area ("FDA") and the Main Plant Area ("MPA") of the Site, areas used by Chemclene as part of its operations. These amount are reflected in the "FDA Drums" and the "MPA Drums" columns of the Summaries. See Section II.B.3. of this Overview and Methodology for details regarding EPA's methodology

relating to the FDA and MPA.

# 2. The percentage of waste each PRP contributed to the FDA and MPA.

This percentage reflects each PRP's percentage of waste contributed to the FDA and MPA, relative to the percentage of total waste sent by all PRPs to the FDA and MPA, respectively. These percentages are reflected in the "FDA %" and "MPA %" columns of the Summaries.

# 3. The revised percentage of waste each PRP contributed to the FDA and MPA.

EPA has determined that some Site PRPs are no longer financially viable corporate entities, and, therefore, are Site "orphans" that will not participate in any *de minimis* settlement with EPA. These orphan shares have been apportioned on a *pro rata* basis among non-orphan Site PRPs. This apportionment is reflected in the "Revised FDA %" and "Revised MPA %" columns of the Summaries.

# 4. <u>De minimis settlement payment required of each settling de minimis PRP.</u>

The Summaries include each eligible *de minimis* PRP's share of costs such PRP will be required to pay in order to participate in a *de minimis* settlement with EPA. The total payment required of each *de minimis* PRP is reflected in the "Total Payment" column of the Summaries. The total payment required of each PRP includes each PRP's share of costs associated with the FDA and MPA, as set forth in the "FDA Cost" and "MPA Cost" columns of the Summaries. In addition, the total payment required of each PRP includes a premium payment assessed by EPA to take into account remedy and cost risks assumed by EPA in connection with the Site and the *de minimis* settlement. The premium is not assessed on EPA's past costs, but only on the estimated future costs. Premiums are reflected in the "FDA Premium" and "MPA Premium" columns of the Summaries.

See the Explanation Sheets attached to the Summaries for additional details regarding the information contained in the Summaries.

# II. METHODOLOGY UTILIZED BY EPA WHEN CREATING THE VOLUMETRIC RANKING SUMMARIES

#### A. Documents Used

The Summaries prepared for the Site were compiled using Site documents obtained by EPA from Chemclene. These documents, which include invoices, receipts, purchase orders, manifests, and a number of other related documents, refer to transactions dating from 1968 until 1992 between Chemclene and its customers. These documents memorialize a number of

different types of transactions, reflecting the varied nature of Chemclene's business and Chemclene's changing billing practices. Examples of the transactions reflected in the documents include, but are not limited to:

- 1. Shipment of solvent and non-solvent waste from waste generators to Chemclene for processing and/or disposal;
- 2. Transshipments of solvent and non-solvent waste from Chemclene to other treatment, storage and disposal facilities;
- 3. Transfer of reclaimed solvents from Chemclene back to the original waste generator;
- 4. Transfer of raw or reclaimed solvent from Chemclene to customers:
- 5. Return of unused solvents or unused empty drums from customers to Chemclene;
- 6. Transfer of empty drums from Chemclene to waste generators to be filled up with wastes;
- 7. Purchases of raw materials by Chemclene;
- 8. Sale of services (such as waste sampling or transport services) by Chemclene to customers; and
- 9. Charges by Chemclene for off-Site disposal of still-bottoms resulting from the on-Site processing of wastes.

## B. <u>Interpretation of Documents</u>

#### 1. Waste into the Site

Based upon its understanding of Chemclene's operations, EPA has assumed that any unit of waste shipped to the Site was just as likely to have become a contaminant in the environment as any other unit of waste.

In preparing the volumetric ranking, EPA has examined carefully the Site documents to determine which transactions indicate the shipment of waste to Chemclene, and to determine the volume of these shipments.

The majority of transactions reflected in the Summaries are documented by a Chemclene invoice. In many instances, however, there are other documents that reveal the

details of the transaction more clearly than the invoice. For most transactions, the nature of the transaction is clear regardless of which document is examined. However, in some cases the nature of the transaction becomes clear only by comparing two or more documents. In all instances, EPA looked at all of the documents related to a transaction before determining how to interpret the documents.

#### 2. Time Period Summarized

For purposes of preparing the VRS, EPA reviewed and summarized existing Site documents, which refer to the 1968 to 1992 time period. EPA is aware that Chemclene operations at the Site commenced in approximately 1952. However, since EPA does not have information relating to the 1952 to 1968 period of Chemclene operations, EPA has made no assumptions regarding waste transactions during that time period, and has not attempted to summarize waste transactions during that time period. Available information indicates that Chemclene withdrew its Part B Application submitted pursuant to the Resource Conservation and Recovery Act ("RCRA"), 42 U.S.C. § 6901 et seq., to operate as a treatment and storage facility, and stopped accepting waste solvent for reclamation in July 1992.

# 3. Main Plant Area and Former Disposal Area

Information available to EPA indicates that Chemclene utilized both the MPA and FDA as part of Chemclene's operations. At all times during its operation, until approximately July 1992, Chemclene utilized the MPA to receive, accumulate, store, and process wastes, including hazardous substances. All wastes sent to the Site initially went to the MPA. Wastes, including hazardous substances, also were released and disposed of at the MPA as a result of Chemclene's operations. Chemclene also disposed of wastes, including hazardous substances, at the FDA. Chemclene claims that disposal at the FDA ceased when new management took over the business in approximately August 1975, at which point Chemclene discontinued use of the FDA and disposed of waste generated from the reclamation process off-Site.

Based upon the foregoing information, when preparing the volumetric ranking summaries for the Site, EPA counted all waste transactions between Chemclene and PRPs during the 1968 to August 1975 time period as waste into both the MPA and the FDA. EPA has counted waste transactions between Chemclene and PRPs after August 1, 1975, only as waste into the MPA.

The distinction between the MPA and the FDA is meaningful in two ways: a) in the setting of the cut-off delineating which PRPs may be eligible to participate in a *de minimis* settlement; and b) in determining the amount of monies eligible *de minimis* PRPs will be required to pay in order to participate in a *de minimis* settlement with EPA.

Each PRP's eligibility for *de minimis* status will be determined using the percentage of the total waste sent to the Site by the PRP. This percentage is set forth in the

"MPA %" column of the Summaries, since all waste into the Site was received and processed by Chemclene at the MPA.

The Site remedy selected by EPA in its Record of Decision dated November 26, 1997, has provided for distinct remedies for the MPA and FDA. Even though significant aspects of the cleanup of the MPA and the FDA may be combined, EPA believes that costs of the remedy can be allocated fairly between the two areas. EPA separately has calculated the *de minimis* settlement payments of each eligible *de minimis* PRPs for the MPA and FDA and has added these amounts to obtain a "Total Payment" required.

#### 4. <u>Transshipments</u>

Based upon EPA's understanding of Chemclene's operations and review of Site records, EPA has determined that some waste received by Chemclene at the Site likely was transhipped off-Site, e.g. shipped off-Site for processing and/or disposal. Information available to EPA indicates that Chemclene often would containerize and store at the Site these wastes for off-Site shipment at some later date, and that releases or threatened releases of these wastes at the Site occurred as a result of Chemclene's practice.

EPA did not count as waste into the Site, transactions that appear to reflect that waste was sent off-Site for processing or disposal *only* in those instances where EPA could document, typically through its review of waste manifests, that such wastes remained in their original shipping containers and were not bulk-stored or otherwise opened and handled on-Site, prior to off-Site shipment.

#### C. <u>Units of Measurement</u>

To the extent applicable, EPA has prepared the volumetric ranking in accordance with OSWER Directive 9835.16, "Guidance to Preparing and Releasing Waste-In Lists and Volumetric Rankings to PRPs Under CERCLA," dated February 22, 1991. The most common unit of shipment was the 55-gallon drum, and therefore all other units found in the documentation were converted to 55-gallon drum units. When units were listed in gallons or other units of volume, simple mathematics was used to convert into drum units. For those entries with less than 55 gallons, a decimal was used. For example, if the documents indicated ten 30-gallon containers of waste shipped to Chemclene, then the 300 gallons of waste would be divided into 55-gallon units yielding 5.45 drums.

In a comparatively few instances, shipments of waste were listed in units of weight or other units. In these instances EPA used the following assumptions:

• For those entries listing pounds as the measurement unit, EPA's standard conversion factor of 1 gallon = 8.33 pounds was extrapolated to 55 gallons = 458 pounds.

- 1 can = 5 gallons.
- 1 bottle = 1 gallon.
- 1 lab pack = 1 gallon.

In addition, a small number of transactions indicated the shipment to Chemclene of "empty" drums or other containers which are listed as "used" or "dirty" or some other language indicating that the container had at one time contained waste. In these instances EPA assumed that the container contained 3% of its capacity in hazardous wastes, based upon the definition of "empty" in the RCRA regulations. See 40 C.F.R. § 261.7.

#### D. <u>Brokers/Transporters</u>

As a result of its review of Site documents, EPA has identified a number of PRPs that appear to have acted as brokers and/or transporters of waste to the Site. EPA has included broker/transporter PRPs in the Summaries.

Most Site records that identify brokers/transporters refer to brokers/transporters with whom it appears Chemclene dealt directly. A number of Site records, for example, reflect that Chemclene directly billed and/or credited such brokers/transporters with regard to waste transactions at the Site.

The Site records that refer to broker/transporter PRPs identify two types of transactions:

1) transactions in which a broker/transporter appears to have arranged for the transport or disposal of or transported waste generated by a third-party to the Site, and in which both the broker/transporter and the generator are expressly identified in the corresponding Site record; and 2) transactions between a broker/transporter and Chemclene where no third-party generator has been identified. In the latter instance the documentation is the same as for any other generator, and the party listed on the documentation is thus treated as a generator for those transactions, even if the same party may have acted as a broker/transporter in other instances.

Consistent with OSWER Directive 9835.16, whenever a Site record reflects a transaction in which both a generator PRP and a broker/transporter PRP are expressly identified, EPA has attributed the waste volume referred to in each such transaction to both the generator and the broker/transporter for purposes of compiling waste-in information contained in the Summaries. However, EPA has counted the total waste referred to in these transactions only once for purposes of determining total waste contributed to the Site by all PRPs.

The Generator VRS summarizes waste volume information: 1) for each generator PRP; and 2) for each broker/transporter PRP only with regard to those broker/transporter transactions with Chemclene for which no corresponding third-party generator has been identified. As set forth above, in cases where a third-party generator is not identified, the party named on the

invoice or other documentation has been treated as a generator for that transaction even if the party involved has been identified as a broker/transporter for other transactions.

The total waste contributed to the Site by all PRPs appears at the end of the Generator VRS.

EPA has prepared a separate Broker/Transporter VRS in order to summarize those waste-in transactions in which both a broker/transporter and a generator have been identified. The waste volume reflected in these transactions also has been summarized for each corresponding generator in the Generator VRS. By preparing a separate Broker/Transporter VRS, EPA can attribute to each broker/transporter the waste reflected in these transactions, but avoid double-counting the waste when determining total waste contributed to the Site by all Site PRPs (as reflected in the Generator VRS).

Broker/transporter PRPs should refer to both the Generator VRS and the Broker/Transporter VRS in order to determine waste volume and percentage information.

For purposes of a *de minimis* settlement, both the generator and the broker/transporter will be liable for the full amount of the waste in a transaction involving both a generator and a broker/transporter. In other words, for some shipments two parties both will be fully liable for the share of the cleanup represented by those drums. However, parties can avoid full liability if the broker/transporter and the generator cooperate with each other and agree to an allocation between themselves. In such instances, the broker/transporter and the generator may *jointly* settle with EPA for the full amount of the wastes in question, and avoid having to *each* pay for the wastes.

#### E. Grouped PRPs

Based upon information obtained by EPA, EPA has concluded that some Site PRPs are related or successor entities to other Site PRPs. EPA has grouped related/successor entities in the attached Summaries. For each such grouping, EPA has determined the grouping's total volume and percentage liability at the Site based upon the combined totals of each related/successor entity. Total volume and percentage information for each grouping is set forth in the Generator VRS that is arranged alphabetically by PRP. Total volume and percentage information for each grouping is set forth under the name of the PRP grouping and appears in bold print. Volume and percentage information for each separate related/successor PRP member of the grouping also is set forth in the Summaries.

#### F. Orphan PRPs

When a PRP is unable to pay all or part of its allocated share of a cleanup, EPA may allocate such a share among the viable PRPs in the same ratio as other cleanup costs. Pursuant to EPA's "Orphan Share" policies, EPA, under certain circumstances, may pay (from the

Superfund) a portion of the shares of PRPs that are completely non-viable. Orphan share funding may be available only to PRPs that agree to implement and fund remedial actions at a site, and not to *de minimis* PRPs. *De minimis* PRPs may be asked to pay on a *pro rata* basis for any shares for which the orphan PRPs are unable to pay. In addition, the *de minimis* premium will take into consideration the likelihood that additional such shares will be identified subsequent to the conclusion of the *de minimis* settlement.

When EPA has been able to identify a PRP as an orphan in the attached summaries, EPA has included for each such PRP, total volume and percentage information. EPA does not anticipate that Site orphans will participate in the *de minimis* settlement or otherwise pay monies towards Site remediation. Therefore, EPA has not included payment information for any Orphan. In addition, EPA has revised each non-Orphan PRP percentage ("Revised FDA %" and "Revised MPA %"), reflecting each non-orphan PRPs *pro rata* payment share for each Site orphan.

The calculation of the revised percentages has been done on a transaction by transaction basis. If a transaction involves an orphan generator, then the transaction was checked to determine if there was a broker/transporter for the same transaction. A transaction has been divided on a *pro rata* basis among the remaining PRPs only if there is *neither* a viable generator *nor* a viable broker/transporter for the transaction.

#### III. DE MINIMIS SETTLEMENT

#### A. De Minimis Cutoff

EPA has established a cut-off for *de minimis* settlement eligibility using a percentage of the total waste sent to the Site by the PRP. A PRP is eligible to participate in a *de minimis* settlement if its volumetric contribution of hazardous substances to the Site is at or less than 0.75% of the total volume attributed to the MPA. Pre-August 1975 percentages that have been assigned for the FDA have not been considered by EPA when establishing the *de minimis* settlement eligibility cutoff. However, such percentages have been considered by EPA when determining the amount of money each *de minimis* PRP will be asked to pay if it desires to settle.

EPA has also established a *de micromis* cutoff at 1.5 drums or less. EPA does not foresee a need for settlements with *de micromis* parties. EPA will, however, pursue settlements with *de micromis* parties if there is a threat of, or an actual suit by, other PRPs at the Site.

#### B. <u>De Minimis Payments</u>

The attached Summaries contain *de minimis* settlement payment information for each eligible *de minimis* settlement. EPA has divided the costs of the selected remedy, as set forth in the ROD, between the MPA and FDA, and has determined each *de minimis* PRP's required settlement payments for each of these areas of the Site. A PRP's required *de minimis* payment is

determined based upon its revised percentages for the FDA and the MPA. These revised percentages are then applied to the total costs estimates for the MPA and the FDA.

As of June 17, 1997, EPA incurred approximately \$2,214,705.00 in response costs ("Past Response Costs") at or in connection with the Site. Since EPA incurred the Past Response Costs as a result of activities that pertained to both the FDA and MPA, EPA has attributed one-half (\$1,107,352.00) of the Past Response Costs to FDA costs and the other one-half (\$1,107,352.00) to MPA costs. EPA has estimated future Site costs associated with cleanup and EPA oversight of the Site to be approximately \$15,729.151.00 (\$15,529,151.00 in remedial costs; \$200,000.00 in EPA remedial oversight). Of that amount, approximately \$8,155,725.00 has been attributed by EPA to cleanup of the FDA (\$8,055,725.00 in remedial costs; \$100,000.00 in EPA remedial oversight). Future costs associated with cleanup and EPA oversight of the MPA are approximately \$7,573,426.00. (\$7,473,426.00 in remedial costs; \$100,000.00 in EPA remedial oversight).

EPA has assessed a premium, which each *de minimis* PRP must pay in addition to each PRP's percentage of FDA and MPA costs, in order to participate in the *de minimis* settlement with EPA. The premium is intended to take into account a number of Site factors and risks, including additional remedial action and potential response cost overruns, that EPA may encounter when settling with *de minimis* PRPs. EPA has established a premium of 50% in this matter, i.e. a multiplier of .50.

### Malvern TCE Superfund Site Volumetric Ranking Challenges and EPA's Response

The Final Volumetric Ranking Summaries dated November 30, 1998 ("Summaries") reflect, among other things, revisions made by EPA in response to comments and challenges received from PRPs with regard to prior draft volumetric ranking summaries distributed by EPA for review.

A number of the comments and challenges submitted by PRPs were PRP-specific counting challenges, referring to individual PRP waste-in determinations of EPA. However, certain comments and challenges submitted pertained to the overall methodology utilized by EPA when preparing the Summaries.

The following sets forth the most common methodology comments and challenges reviewed by EPA and EPA's response to the same<sup>1</sup>:

#### 1. **COMMENT**:

The volumetric ranking summaries should include all broker/transporter PRPs at the Site. EPA should allocate generators and brokers/transporters percentage shares of liability at the Site.

#### **EPA'S RESPONSE:**

As a result of its review of Site documents, EPA has identified a number of PRPs that appear to have acted as brokers and/or transporters of waste to the Site. EPA has included all identified broker/transporter PRPs and broker/transporter transactions in the Summaries.

Most Site records that identify brokers/transporters refer to brokers/transporters with whom it appears that Chemclene dealt directly. A number of Site records, for example, reflect that Chemclene directly billed and/or credited such brokers/transporters with regard to waste

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This document is intended to discuss only common methodology comments and challenges submitted by Site PRPs to EPA. Any PRP that submitted a PRP-specific counting challenge may contact Gary Morton, EPA Civil Investigator, to obtain information regarding EPA's review of its challenge. Inquiries should be sent in writing to:

transactions at the Site. A number of the brokers/transporters identified appear to have provided services involving the Site on behalf of a variety of generators.

The Site records that refer to broker/transporter PRPs typically identify two types of transactions: 1) transactions in which a broker/transporter appears to have arranged for the transport or disposal of or transported waste generated by a third-party to the Site, and in which both the broker/transporter and the generator are expressly identified in the corresponding Site record; and 2) transactions between a broker/transporter and Chemclene, where no third-party generator has been identified, but the party on the documentation acted as a broker/transporter in other transactions with Chemclene.

Whenever a Site record reflects a transaction in which both a generator PRP and a broker/transporter PRP are expressly identified, consistent with OSWER Directive 9835.16, ("Guidance on Preparing and Releasing Waste-In Lists and Volumetric Rankings to PRPs under CERCLA," dated February 22, 1991), EPA has attributed the waste volume referred to in each such transaction to both the generator and the broker/transporter for purposes of compiling waste-in information contained in the Summaries. However, EPA has counted the total waste referred to in these transactions only once for purposes of determining total waste contributed to the Site by all PRPs.

EPA has created a Generator VRS, which summarizes waste volume information for: 1) each generator PRP; and 2) each broker/transporter PRP only with regard to those broker/transporter transactions with Chemclene for which no third-party generator has been identified. In cases where a third-party generator is not identified, the party named on the invoice or other documentation has been treated as a generator for that transaction even if the party involved has been identified as a broker/transporter for other transactions. As a practical matter, it makes no difference to a party whether it is listed as a generator or a broker/transporter for a particular transaction - in either instance the transaction will be counted toward the party's total. The Generator VRS reflects the total waste contributed to the Site by all PRPs.

EPA has prepared a separate Broker/Transporter VRS in order to summarize those waste-in transactions in which both a broker/transporter and a generator have been identified. The waste volume reflected in these transactions also has been summarized for each corresponding generator in the Generator VRS. By preparing a separate Broker/Transporter VRS, EPA can attribute to each broker/transporter the waste reflected in these transactions, but avoid double-counting the waste when determining total waste contributed to the Site by all Site PRPs (as reflected in the Generator VRS).

#### 2. **COMMENT**:

EPA erroneously counted as waste into the Site materials that were sent to the Site but shipped off-Site for disposal.

#### **EPA'S RESPONSE:**

Based upon its understanding of Chemclene's operations and its review of Site records, EPA has determined that some waste received by Chemclene at the Site was shipped off-Site for processing and/or disposal. Information available to EPA indicates that Chemclene often would containerize and store these wastes at the Site for off-Site shipment at some later date, and that releases or threatened releases of these wastes at the Site occurred as a result of Chemclene's practice.

EPA did *not* count waste transactions that appear to reflect that waste was sent off-Site for processing or disposal. In order for such transactions not to be counted by EPA, EPA must have been able to document that such wastes remained in their original shipping containers and were not bulk-stored or otherwise opened and handled on-Site, prior to off-Site shipment.

#### 3. **COMMENT**:

Pre-1968 transactions with Chemclene should be included in EPA's waste-in determinations relating to the Site.

#### **EPA'S RESPONSE:**

Information currently available to EPA indicates that Chemclene utilized the Site for its waste reclamation operations from approximately 1959 to 1992. The Site records that have been utilized by EPA when preparing the Summaries refer only to the 1968 to 1992 time period. EPA has not attempted to incorporate pre-1968 transactions at the Site into the Summaries. EPA has no evidence as to the identity of PRPs or the quantity and/or nature of waste transactions with Chemclene during the pre-1968 time period, and is unable and unwilling to speculate as to this information.

EPA also has not identified pre-1968 transactions as transactions for which orphan share funding should be made available. When a PRP is unable to pay its allocated share of a cleanup, EPA may allocate such a share among the viable PRPs in the same ratio as other cleanup costs. Pursuant to EPA's "Orphan Share" policy, under certain circumstances, EPA may pay (from the Superfund) a portion of the shares for PRPs that are completely non-viable. Orphan share funding may be available only to PRPs that agree to implement and fund remedial actions at a site, and not to *de minimis* PRPs.

When EPA has been able to identify a Site PRP as an orphan, EPA has incorporated this information in the Summaries. EPA has not attempted to calculate any pre-1968 orphan share, since EPA has no information as to the identity of any pre-1968 Site PRPs, nor as to any such PRPs' current corporate status.

#### 4. **COMMENT**:

The owners/operator of the Site should be included in the Summaries.

#### **EPA'S RESPONSE:**

EPA has identified Chemclene as a PRP based upon its Site owner/operator status. Lloyd Balderston, Chemclene's sole shareholder, has been notified of his status as PRP at the Site due to his position as a Site operator during periods in which releases occurred. In addition, Ruth Balderston has been identified as a PRP based upon her status as a past owner of the Site during a period in which releases occurred.

Chemclene and the Balderstons have not been allocated shares in the Summaries. In accordance with OSWER Directive 9835.16, the Summaries are designed to rank waste generators and brokers/transporters. Chemclene does not appear to have the financial capability to completely clean up the Site. Nevertheless, EPA considers Chemclene and the Balderstons to be viable PRPs who should participate to the fullest extent possible in Site remediation and funding.

#### 5. **COMMENT**:

When determining PRP liability at the Site, EPA should take into account separate waste-in rankings for the Former Disposal Area ("FDA") and the Main Plant Area ("MPA"), areas of the Site utilized by Chemclene as part of its operations.

#### **EPA'S RESPONSE:**

Information available to EPA indicates that Chemclene utilized both the FDA and the MPA of the Site as part of Chemclene's operations. At all times during its operation, until approximately July 1992, Chemclene utilized the MPA to receive, accumulate, store, and process wastes, including hazardous substances. All wastes sent to the Site initially went to the MPA. Wastes, including hazardous substances, also were released and disposed of at the MPA as a result of Chemclene's operations.

Chemclene also disposed of wastes, including hazardous substances, at the FDA. Chemclene claims that disposal at the FDA ceased when new management took over the business in approximately August 1975, at which point Chemclene discontinued use of the FDA and disposed of waste generated from the reclamation process off-Site.

Based upon the foregoing information, when preparing the volumetric ranking summaries for the Site, EPA counted all waste transactions between Chemclene and PRPs during the 1968 to August 1975 time period as waste into both the MPA and the FDA. EPA has counted waste transactions occurring after August 1, 1975, between Chemclene and PRPs, only as waste into the MPA.

Each PRP's eligibility for *de minimis* status will be determined by reference to each PRP's percentage using the waste-in information for the MPA, where all waste into the Site was received and processed by Chemclene.

EPA has utilized the separate PRP waste-in rankings for the FDA and MPA in order to determine settlement payments that will be required by *de minimis* PRPs. The Site remedy selected by EPA in its Record of Decision dated November 26, 1997, has provided for distinct remedies for the MPA and FDA. Even though significant aspects of the cleanup of the MPA and the FDA may be combined, EPA believes that costs of the remedy can be allocated between the two areas. EPA has calculated settlement payments required of each eligible *de minimis* PRP by determining separately for the FDA and MPA the remedial and oversight costs associated with each of these areas of the Site, and then calculating each PRP's *de minimis* payment obligation with respect to these disparate costs.

EPA recognizes that PRPs that are not eligible for *de minimis* settlement may wish to allocate liability among themselves for disparate remedies selected for the FDA and MPA.

#### 6. **COMMENT**:

Waste oil wastes should not be counted as waste into the Site.

#### **EPA'S RESPONSE:**

When preparing the Summaries, EPA assumed that all waste sent to the Site was either processed or stored at the Site. Although parties have stated that Chemclene only brokered waste oil, it is EPA's belief that waste oil sent to the Site was transferred on-Site and bulk stored. Additionally, waste oil components have been found at the Site at both the FDA and MPA. The Site remedy selected by EPA is designed to address solvents and other hazardous substances, including those typically found in waste oil, at the Site. Accordingly, unless a PRP making such a challenge provided EPA with an analysis of the actual waste sent to the Site, indicating that the waste did not contain hazardous substances, the waste was included in the Summaries.



### Malvern TCE Superfund Site <u>Explanation Sheet for the Final Volumetric Ranking Summary (VRS)</u>

The following provides an explanation of the information provided in the attached Malvern TCE Superfund Site (the Site) Final Volumetric Ranking Summary (VRS). Please refer to the example provided below for an illustration of the process used to calculate individual total payment.

PRP Name	FDA Drums	FDA %	FDA Revised %	FDA Cost	FDA Premium	MPA Drums	MPA %	MPA Revised %	MPA Cost	MPA Premium	Total Payment
ABC Corporation	34	1.49 %	1.52 %	\$141,249	\$62,182	82	0.29 %	0.30 %	\$26,325	\$11,483	\$241,239

<u>PRP Name</u> = The name of the specific potentially responsible party (PRP). Subsidiaries may be listed separately from parent companies; therefore, please review the VRS in its entirety to identify company subsidiaries that may have done business with Chemclene Corporation.

<u>FDA Drums</u> = The total number for drums sent to the Site before August 1, 1975.

FDA % = The total number of drums sent by the PRP prior to August 1, 1975, divided by the total number of documented drums received by Chemclene Corporation prior to August 1, 1975, multiplied by 100.

<u>FDA Revised %</u> = The total number of drums sent by the PRP prior to August 1, 1975, divided by the FDA total number of all non-orphan<sup>2</sup> drums received by Chemclene Corporation prior to August 1, 1975, multiplied by 100.

FDA Cost = The FDA Revised % divided by 100 and multiplied by \$9,263,078, the total past cost<sup>3</sup> and estimated future cost associated with the FDA.

FDA Premium = The FDA Revised % divided by 100 and multiplied by the future estimated costs for the FDA (\$8,155,725) multiplied by the premium (50%).

<u>MPA Drums</u> = The total number of drums received at the Site, regardless of the date, for which the PRP is responsible.

MPA % = The total number of drums sent by the PRP, regardless of date, divided by the total number of documented drums received by Chemclene Corporation, multiplied by 100.

MPA Revised % = The total number of drums sent by the PRP, regardless of date, divided by the total number of non-orphan drums' received by Chemclene Corporation, regardless of date, multiplied by 100.

MPA Cost = MPA Revised % divided by 100 and multiplied by \$8,680,799, the total past cost<sup>2</sup> and estimated future cost associated with the MPA.

MPA Premium = The MPA Revised % divided by 100 and multiplied by the future estimated costs for the MPA (\$7,573,426) multiplied by the premium (50%).

Total Payment = FDA Cost + FDA Premium + MPA Cost + MPA Premium.

<sup>&</sup>lt;sup>1</sup> The FDA Cost, FDA Premium, MPA Cost, and MPA Premium figures are rounded to zero decimal places for display purposes only. The full number is used in the calculation of the Total Payment.

<sup>&</sup>lt;sup>2</sup> Non-orphan drums are drums for which there is either a viable generator or a viable broker/transporter.

The total past cost for the Site as of June 17, 1997, is \$2,214,705.00. Half of this cost was allocated to the FDA, with the other half being allocated to the MPA.

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Generator Name	FDA Drums	FDA %	Revised FDA %	FDA Cost	FDA Premium	MPA Drums	MPA %	Revised MPA %	MPA Cost	MPA Premium	Generator Total De Minimis Payment
Flacksia	420.00	0.0004	0.000/			0000 00	7.5.40/	7 500			
ern Electric	139.00	6.09%	6.22%			2083.00	7.54%	7.80%			A
ton Technology, Inc.	245.54	04 0004				1234.00	4.47%	4.62%			A
Wrecking Company Inc.	715.51	31.33%	32.00%			983.51	3.56%	3.68%			A
ton Watch Co.	197.00	8.63%	8.81%			904.00	3.27%	3.39%		•	A
anufacturing	104.00	4.55%	4.65%			819.84	2.97%	3.07%			Α
er & Porter Co/Andrews Glass	93.00	4.07%	4.16%			794.50	2.88%	2.98%			A
d/Star Grouping Dental Corporation						610.00	2.21%	2.28%			D, A
uth Tube	9.00	0.39%	0.40%			566.37	2.05%	2.12%			A
rong Cork Co.						522.70	1.89%	1.96%			А
ughs Corp.	147.00	6.44%	6.58%			519.54	1.88%	1.95%			А
al Motors Corporation	5.00	0.22%	0.22%			517.00	1.87%	1.94%			Α
s Foote Mineral Co.						495.00	1.79%	1.85%			Α
rce Technology Services, Inc.						473.72	1.72%	1.77%			C, A
ton Precision Metals	•					472.06	1.71%	1.77%			A
Plating		•				430.00	1.56%	1.61%			Α
nce Corp.	12.00	0.53%	0.54%			415.00	1.50%	1.55%			Α
Controls	4.00	0.18%	0.18%			374.59	1.36%	1.40%			Α
c Corp.	52.00	2.28%	2.33%			358.00	1.30%	1.34%			Α
ng Call						355.00	1.29%	1.33%			Α
Products		1				328.50	1.19%	1.23%			A
rouping						202.00	4.000	4.000′			D, A
						292.00	1.06%	1.09%			

Superceding 4/27/98 VRS

A De maximus party and does not qualify for de minimis settlement offer.

Party has been identified as an orphan.

Total payment for broker/transporter is detailed on the separate Broker/Transporter Volumetric Ranking Summary.

If your company appears under a grouping, please refer to the combined entities throughout the alphabetical Volumetric Ranking Summary.

E De micromis party.

(By Descending Order)

Generator Name	FDA Drums	FDA %	Revised FDA %	FDA Cost	FDA Premium	MPA Drums	MPA %	Revised MPA %	MPA Cost	MPA Premium	Generator Total De Minimis Payment
Kim Manufacturing	40.00	4.750/	4.700/			283.00	1.03%	1.06%			A
ALCOA	40.00	1.75%	1.79%			275.00	1.00%	1.03%			Α .
Quaker City Chemicals	7.00	0.31%	0.31%			268.09	0.97%	1.00%			C, A
PP&L Northern Div. S.C.			•			257.27	0.93%	0.96%			Α
Aydin						251.82	0.91%	0.94%			Α
Beckett Corporation						250.55	0.91%	0.94%			Α
A. S. Koch Corp.	137.00	6.00%	6.13%			250.00	0.91%	0.94%			Α
Vishay Resistive Systems						241.00	0.87%	0.90%			Α
Handy & Harman Tube Co. Inc						229.18	0.83%	0.86%			Α
Porter Instruments						228.27	0.83%	0.85%			Α
Electronic Display Systems/Hercules						224.00	0.81%	0.84%			A
Action Manufacturing Company	49.18	2.15%	2.20%			220.31	0.80%	0.83%			Α
Cabot Grouping						218.00	0.700/	0.929/			D 4
Kawecki Berylco						216.00	0.79%	0.82%			D, A
John Evan's & Sons, Inc.						203.29	0.74%	0.76%	\$66,089	\$28,829	\$94,918
Defense Reutilization & Marketing Gro DRMS/PNSY	ouping					200.72	0.73%	0.75%			D, A
		•					0.1.0.10	<b>5 5</b>			2,71
Electro Platers of York Inc.						199.36	0.72%	0.75%	\$64,811	\$28,272	\$93,083
McClarin Plastics						195.04	0.71%	0.73%	\$63,407	\$27,659	\$91,066
General Electric						191.00	0.69%	0.72%	\$62,094	\$27,086	\$89,180
Lavelle Aircraft Co.						189.55	0.69%	0.71%	\$61,622	\$26,881	\$88,503
Polysciences						184.00	0.67%	0.69%	\$59,818	\$26,094	\$85,912

<sup>\*</sup> Superceding 4/27/98 VRS

A De maximus party and does not qualify for de minimis settlement offer.

B Party has been identified as an orphan.

C Total payment for broker/transporter is detailed on the separate Broker/Transporter Volumetric Ranking Summary.

D If your company appears under a grouping, please refer to the combined entities throughout the alphabetical Volumetric Ranking Summary.

E De micromis party.

(By Descending Order)

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Generator Name	FDA Drums	FDA %	Revised FDA %	FDA Cost	FDA Premium	MPA Drums	MPA %	Revised MPA %	MPA Cost	MPA Premium	Generator Total De Minimis Payment
USG Grouping								-			
U S G Interiors						182.00	0.66%	0.68%			D, A
RCA	32.00	1.40%	1.43%	\$132,584	\$58,367	177.00	0.64%	0.66%	\$57,542	\$25,101	\$273,594
S P S Technologies						167.00	0.60%	0.63%	\$54,291	\$23,683	\$77,974
National Solvents Inc.						156.00	0.57%	0.00%	\$0	\$0	В
H - V Industries, Inc.		•				151.50	0.55%	0.57%	\$49,252	\$21,485	\$70,737
Leeds & Northrop	•					145.72	0.53%	0.55%	\$47,373	\$20,665	\$68,038
N G K Metals						145.00	0.53%	0.54%	\$47,139	\$20,563	\$67,702
Cabot Grouping Cabot Berylco						143.00	0.52%	0.54%			D, A
Stein Seal Co.						138.00	0.50%	0.52%	\$44,863	\$19,570	\$64,434
S K F Industries Inc.						133.36	0.48%	0.50%	\$43,355	\$18,912	\$62,267
Amp Corp.	34.00	1.49%	1.52%	\$140,870	\$62,015	133.00	0.48%	0.50%	\$43,238	\$18,861	\$264,984
Bishop Tube Co.	60.00	2.63%	2.68%	\$248,594	\$109,438	130.00	0.47%	0.49%	\$42,263	\$18,436	\$418,731
F B F Industries Inc.						130.00	0.47%	0.49%	\$42,263	\$18,436	\$60,698
Penflex Inc.	42.00	1.84%	1.88%	\$174,016	\$76,607	125.31	0.45%	0.47%	\$40,738	\$17,771	\$309,131
Valley Forge Tape & Label Co.						122.36	0.44%	0.46%	\$39,779	\$17,352	\$57,131
Dorado Fabrics						119.00	0.43%	0.00%	\$0	\$0	. В
Penguin Industries						119.00	0.43%	0.45%	\$38,687	\$16,876	\$55,562
R & E Martin, Inc.						116.29	0.42%	0.44%			С
Syntex/Star Grouping											
Syntex Dental Products						115.00	0.42%	0.43%			D, A
James Spring & Wire Co.	2.00	0.09%	0.09%	\$8,286	\$3,648	113.00	0.41%	0.42%	\$36,736	\$16,025	\$64,695

<sup>\*</sup> Superceding 4/27/98 VRS

A De maximus party and does not qualify for de minimis settlement offer.

B Party has been identified as an orphan.

C Total payment for broker/transporter is detailed on the separate Broker/Transporter Volumetric Ranking Summary.

D If your company appears under a grouping, please refer to the combined entities throughout the alphabetical Volumetric Ranking Summary.

E De micromis party.

(By Descending Order)

Generator Name	FDA Drums	FDA %	Revised FDA %	FDA Cost	FDA Premium	MPA Drums	мра %	Revised MPA %	MPA Cost	MPA Premium	Generator Total De Minimis Payment
-											
Giles & Ransome						112.00	0.41%	0.42%	\$36,411	\$15,883	\$52,294
Mars Electronics Inc.						110.99	0.40%	0.42%	\$36,083	\$15,740	\$51,822
Netzsch Inc.						110.00	0.40%	0.41%	\$35,761	\$15,599	\$51,360
Waste Conversion	•					104.00	0.38%	0.39%			С
Empire Abrasive & Equipment Corp.						103.80	0.38%	0.39%	\$33,745	\$14,720	\$48,465
McGee Industries Inc.						97.00	0.35%	0.36%	\$31,534	\$13,756	\$45,290
K - D Tool Manufacturing						95.00	0.34%	0.36%	\$30,884	\$13,472	\$44,357
Malco						94.04	0.34%	0.35%	\$30,572	\$13,336	\$43,908
S P D Technologies						87.00	0.32%	0.33%	\$28,284	\$12,338	\$40,621
Acro Labels						86.00	0.31%	0.32%	\$27,958	\$12,196	\$40,154
J W Rex Co.	21.00	0.92%	0.94%	\$87,008	\$38,303	86.00	0.31%	0.32%	\$27,958	\$12,196	\$165,466
Chobert Associates						85.15	0.31%	0.32%	\$27,682	\$12,075	\$39,757
High Energy Company						84.64	0.31%	0.32%	\$27,516	\$12,003	\$39,519
Container Research Corporation						83.00	0.30%	0.31%	\$26,983	\$11,771	\$38,754
Clifton Precision	34.00	1.49%	1.52%	\$140,870	\$62,015	82.00	0.30%	0.31%	\$26,658	\$11,629	\$241,172
Materials Electronic Products						81.00	0.29%	0.30%	\$26,333	\$11,487	\$37,820
Princo Instruments Inc.						79.00	0.29%	0.30%	\$25,683	\$11,203	\$36,886
Aston-Hill Co.						74.00	0.27%	0.00%	\$0	\$0	В
Defense Reutilization & Marketing Gre	oupina										
DRMO Knox						74.00	0.27%	0.28%			D, A
Moore Products	73.00	3.20%	3.27%	\$302,456	\$133,150	73.00	0.26%	0.27%	\$23,732	\$10,352	\$469,691
Spra-Fin Inc.						72.41	0.26%	0.27%	\$23,540	\$10,269	\$33,809
USG Grouping											
Floor Systems Inc.						71.40	0.26%	0.27%			D, A

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E De micromis party.

(By Descending Order)

Generator Name	FDA Drums	FDA %	Revised FDA %	FDA Cost	FDA Premium	MPA Drums	MPA %	Revised MPA %	MPA Cost	MPA Premium	Generator Total De Minimis Payment
Superior Tube	21.00	0.92%	0.94%	\$87,008	\$38,303	71.00	0.26%	0.27%	\$23,082	\$10,069	\$158,462
Synthane Taylor Corp.						71.00	0.26%	0.27%	\$23,082	\$10,069	\$33,151
Sandvik, Inc.						70.90	0.26%	0.27%	\$23,049	\$10,055	\$33,104
Amchem						70.00	0.25%	0.26%	\$22,757	\$9,927	\$32,684
Scotco Design Group Inc.						69.00	0.25%	0.26%	\$22,432	\$9,785	\$32,217
Gould Inc.						68.00	0.25%	0.25%	\$22,107	\$9,643	\$31,750
Napp Chemical						67.00	0.24%	0.25%	\$21,782	\$9,502	\$31,283
Globe Solvents						66.36	0.24%	0.00%	\$0	\$0	В
Continental Vanguard, Inc.		•				65.45	0.24%	0.25%			С
Zenith Products Corp.						63.00	0.23%	0.24%	\$20,481	\$8,934	\$29,415
Elco Corporation	61.00	2.67%	2.73%	\$252,738	\$111,262	61.00	0.22%	0.23%	\$19,831	\$8,651	\$392,481
Welex Inc.						61.00	0.22%	0.23%	\$19,831	\$8,651	\$28,482
North Industrial Chemicals						60.00	0.22%	0.22%			С
Graphic Packaging Corp.						59.57	0.22%	0.22%	\$19,366	\$8,448	\$27,814
Superior Metal Products						58.00	0.21%	0.22%	\$18,856	\$8,225	\$27,081
Mida Development						57.50	0.21%	0.22%	\$18,693	\$8,154	\$26,847
Solatario						57.00	0.21%	0.00%	\$0	\$0	В
Defense Reutilization & Marketing Gro	uping										
DRMO PHILADELPHIA						54.00	0.20%	0.20%			D, A
Simonetta Brothers						53.26	0.19%	0.00%	\$0	\$0	В
North Penn Polishing & Plating						52.55	0.19%	0.20%	\$17,084	\$7,452	\$24,536
Ark Products	5.00	0.22%	0.22%	\$20,716	\$9,120	52.00	0.19%	0.19%	\$16,905	\$7,374	\$54,115
East West Label Co. Inc.						49.50	0.18%	0.19%	\$16,092	\$7,020	\$23,112
Delco Wire & Cable, Inc./ Delco Elec.						47.00	0.17%	0.00%	\$0	\$0	В

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(By Descending Order)

Generator Name	FDA Drums	FDA %	Revised FDA %	FDA Cost	FDA Premium	MPA Drums	MPA %	Revised MPA %	MPA Cost	MPA Premium	Generator Total De Minimis Payment
Pitman Corp.						47.00	0.17%	0.18%	\$15,280	<b>\$6.66</b> E	\$24.04E
M Q S Inspection Inc./Magnaflux						46.00	0.17%	0.10%	\$14,954	\$6,665 \$6,523	\$21,945
A & L Handles						43.00	0.17%	0.17%	\$13,979	\$6,098	\$21,478 \$20,077
J & J Spill	•					43.00	0.16%	0.16%	Ψ10,919	<b>Ф</b> 0,090	\$20,077 <b>C, A</b>
Lancaster Machinery Co.						43.00	0.16%	0.16%	\$13,979	\$6,098	\$20,077
Ametek, Inc.	9.00	0.39%	0.40%	\$37,289	\$16,416	42.18	0.15%	0.16%	\$13,713	\$5,982	\$20,077 \$73,399
Athena Controls	3.00	0.00 %	0.40 /0	Ψ07,209	Ψ10,410	42.00	0.15%	0.16%	\$13,654	\$5,952 \$5,956	\$19,610
Biddle Instrument Company						42.00	0.15%	0.16%	\$13,654	\$5,956	\$19,610 \$19,610
Cook Specialty Company						42.00	0.15%	0.16%	\$13,654	\$5,956	\$19,610 \$19,610
			•			12.00	0.1070	0.1070	Ψ10,004	Ψ0,500	Ψ13,010
USG Grouping Davey Products						41.00	0.15%	0.15%			D, A
Adelphia Graphics Systems					4	40.05	0.15%	0.15%	\$13,020	\$5,680	\$18,700
C S S International Corp.	8.00	0.35%	0.36%	\$33,146	\$14,592	39.86	0.14%	0.15%	\$12,958	\$5,653	\$66,349
Chem Par						39.00	0.14%	0.15%	\$12,679	\$5,531	\$18,210
Formosa Plastics		<i>:</i>				39.00	0.14%	0.15%	\$12,679	\$5,531	\$18,210
Xynatech Inc.						39.00	0.14%	0.15%	\$12,679	\$5,531	\$18,210
Eaton	36.00	1.58%	1.61%	\$149,157	\$65,663	38.00	0.14%	0.14%	\$12,354	\$5,389	\$232,562
Asplundh Manufac. Co.						37.00	0.13%	0.14%	\$12,029	\$5,247	\$17,276
Brumbaugh Industries						37.00	0.13%	0.14%	\$12,029	\$5,247	\$17,276
Carvel Hall Inc						37.00	0.13%	0.14%	\$12,029	\$5,247	\$17,276
Manorgraphics						36.84	0.13%	0.14%	\$11,977	\$5,224	\$17,201
Allister Mfg.						36.00	0.13%	0.13%	\$11,704	\$5,105	\$16,809
Decision Data						36.00	0.13%	0.13%	\$11,704	\$5,105	\$16,809
Petrocon	35.00	1.53%	1.57%	\$145,013	\$63,839	35.00	0.13%	0.13%	\$11,378	\$4,963	\$225,194

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(By Descending Order)

Generator Name	FDA Drums	FDA %	Revised FDA %	FDA Cost	FDA Premium	MPA Drums	MPA %	Revised MPA %	MPA Cost	MPA Premium	Generator Total De Minimis Payment
Phila. Electric Co. Oregon Maint, Shops						34.45	0.12%	0.13%	\$11,200	\$4,885	\$16,085
Accuracy Scientific	3.00	0.13%	0.13%	\$12,430	\$5,472	34.18	0.12%	0.13%	\$11,112	\$4,847	\$33,861
Electroloy			0.1070	¥.=,	40, 112	33.00	0.12%	0.12%	\$10,728	\$4,680	\$15,408
Specialty Castings Inc.	•					33.00	0.12%	0.12%	\$10,728	\$4,680	\$15,408
Control Switch	3.00	0.13%	0.00%	\$0	\$0	32.48	0.12%	0.00%	\$0	\$0	\$10,400 B
B. P. Oil				*-	***	32.00	0.12%	0.12%	\$10,403	\$4,538	\$14,941
Pennsbury Manufacturing						32.00	0.12%	0.00%	\$0	\$0	<b>В</b>
Solid State Scientific						32.00	0.12%	0.12%	\$10,403	\$4,538	\$14,941
Trend Instruments						31.18	0.11%	0.12%	\$10,137	\$4,422	\$14,558
Heel Co.						31.00	0.11%	0.12%	\$10,078	\$4,396	\$14,474
Display Corporation of America						30.00	0.11%	0.11%	\$9,753	\$4,254	\$14,007
Telegenix Inc.						30.00	0.11%	0.11%	\$9,753	\$4,254	\$14,007
Johnson-Matthey						29.55	0.11%	0.11%	\$9,607	\$4,191	\$13,797
Laminators Inc.						29.00	0.11%	0.11%	\$9,428	\$4,113	\$13,540
Westcode Inc.						28.22	0.10%	0.11%	\$9,174	\$4,002	\$13,176
Anchor Darling Co.						28.00	0.10%	0.10%	\$9,103	\$3,971	\$13,074
G. K. Garrett Corp.						27.45	0.10%	0.10%	\$8,924	\$3,893	\$12,817
Cabot Grouping											
Cabot Wrought Products						27.00	0.10%	0.10%			D, A
Jetshapes Inc.						27.00	0.10%	0.10%	\$8,778	\$3,829	\$12,607
R. R. Donnelley & Sons, Inc.						27.00	0.10%	0.10%	\$8,778	\$3,829	\$12,607
Kawneer Corp.						26.00	0.09%	0.10%	\$8,453	\$3,687	\$12,140
London Harness & Cable Co.						26.00	0.09%	0.10%	\$8,453	\$3,687	\$12,140
Storm Weather Products						26.00	0.09%	0.10%	\$8,453	\$3,687	\$12,140

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(By Descending Order)

Accumetrics	Generator Name	FDA Drums	FDA %	Revised FDA %	FDA Cost	FDA Premium	MPA Drums	MPA %	Revised MPA %	MPA Cost	MPA Premium	Generator Total De Minimis Payment
Model Finishing	Accumetrics						25.00	0.09%	0.09%	\$8 127	<b>\$</b> 3 545	\$11 673
Sweda/Litton         25.00         0.09%         0.09%         \$8,127         \$3,545         \$11,673           Frazer-Volpe Corporation         23.82         0.09%         0.09%         \$7,744         \$3,378         \$11,122           Amuneal Mfg. Co.         23.00         0.08%         0.09%         \$7,477         \$3,262         \$10,739           Gas Springs         23.00         0.08%         0.09%         \$7,477         \$3,262         \$10,739           Westinghouse         23.00         0.08%         0.09%         \$7,477         \$3,262         \$10,739           Beenter Engineering         4.00         0.18%         \$16,573         \$7,296         22.00         0.08%         0.09%         \$7,477         \$3,262         \$10,739           Beenter Engineering         4.00         0.18%         \$16,573         \$7,296         22.00         0.08%         0.08%         \$7,152         \$3,262         \$10,739           Beendru Company         20.00         0.08%         0.08%         \$6,827         \$2,978         \$9,805           Data Media Inc         20.00         0.08%         0.08%         \$6,827         \$2,978         \$9,805           Carring Michael Prof Co. Inc.         20.00         0.08%										• •		
Frazer-Volpe Corporation  Amuneal Mfg. Co.  Amuneal Mfg. Co.  Amuneal Mfg. Co.  By Springs  By Li Inc.  By Li Inc.  Beemer Engineering  Auo  O.18%  O	Sweda/Litton						25.00	0.09%	0.09%	\$8,127		
Amuneal Mfg. Co. Gas Springs Gas Springs Gas Springs Gable Gas Springs Gas Spr										•	~	
Gas Springs       400 L Inc.       23.00 0.08% 0.09% 0.09% 0.09% 0.09% 0.09% 0.09% 0.00%	, ,						23.00	0.08%	0.09%	•		
R D L Inc.  Westinghouse  Language Engineering  Auguage Auguage  Language Engineering  Auguage Engineering	Gas Springs						23.00	0.08%	0.09%			
Westinghouse         23.00         0.08%         0.09%         \$7,477         \$3,262         \$10,739           Beemer Engineering         4.00         0.18%         0.18%         \$16,573         \$7,296         22.00         0.08%         0.08%         \$7,152         \$3,120         \$34,141           Bendru Company         21.00         0.08%         0.08%         0.08%         \$6,827         \$2,978         \$9,805           Camdel Metals         22.00         0.08%         0.08%         0.08%         \$6,827         \$2,978         \$9,805           Data Media Inc         22.00         0.08%         0.08%         0.08%         \$6,827         \$2,978         \$9,805           Philadelphia Rust Proof Co. Inc.         22.00         0.08%         0.08%         \$6,827         \$2,978         \$9,805           United Chem-Con Corp.         21.00         0.08%         0.00%         \$6,827         \$2,978         \$9,805           Cantol Inc.         22.00         0.08%         0.00%         \$6,827         \$2,978         \$9,805           Cantol Inc.         22.00         0.07%         0.08%         \$6,531         \$2,836         \$9,385           Cantol Inc.         22.00         0.07%         0.07%	R D L Inc.						23.00	0.08%	0.09%			
Beemer Engineering         4.00         0.18%         0.18%         \$16,573         \$7,296         22.00         0.08%         0.08%         \$7,152         \$3,120         \$34,141           Benditru Company         21.00         0.08%         0.08%         \$6,827         \$2,978         \$9,805           Camdel Metals         21.00         0.08%         0.08%         \$6,827         \$2,978         \$9,805           Data Media Inc         21.00         0.08%         0.08%         \$6,827         \$2,978         \$9,805           Philadelphia Rust Proof Co. Inc.         21.00         0.08%         0.08%         \$6,827         \$2,978         \$9,805           United Chem-Con Corp.         21.00         0.08%         0.08%         \$6,827         \$2,978         \$9,805           Matheson Instrument         21.00         0.08%         0.00%         \$0         \$0         \$0         \$8           Contamination Control, Inc.         21.00         0.07%         0.08%         \$6,531         \$2,849         \$9,385           Narco Avionics         21.00         0.07%         0.07%         0.07%         \$6,531         \$2,849         \$9,385           Deltron Incorporated         21.00         0.07%         0.07%	Westinghouse						23.00	0.08%	0.09%	\$7,477		
Camdel Metals       21.00       0.08%       0.08%       \$6,827       \$2,978       \$9,805         Data Media Inc       21.00       0.08%       0.08%       \$6,827       \$2,978       \$9,805         Philadelphia Rust Proof Co. Inc.       21.00       0.08%       0.08%       \$6,827       \$2,978       \$9,805         United Chem-Con Corp.       21.00       0.08%       0.08%       \$6,827       \$2,978       \$9,805         Matheson Instrument       20.00       0.08%       0.00%       \$6,534       \$2,805       \$9,385         Cantol Inc.       20.00       0.07%       0.08%       \$6,534       \$2,809       \$9,385         Contamination Control, Inc.       20.00       0.07%       0.07%       \$6,531       \$2,849       \$9,385         Narco Avionics       20.00       0.07%       0.07%       \$6,502       \$2,836       \$9,385         Deltron Incorporated       19.00       0.07%       0.07%       \$0,07%       \$6,177       \$2,694       \$8,671         Yusas-Exide Battery Corp.       19.00       0.07%       0.07%       0.07%       \$6,031       \$2,631       \$8,651         Yusas-Exide Battery Corp.       18.00       0.07%       0.07%       \$0,07%       \$6,031 <td>Beemer Engineering</td> <td>4.00</td> <td>0.18%</td> <td>0.18%</td> <td>\$16,573</td> <td>\$7,296</td> <td>22.00</td> <td>0.08%</td> <td>0.08%</td> <td>\$7,152</td> <td></td> <td>· ·</td>	Beemer Engineering	4.00	0.18%	0.18%	\$16,573	\$7,296	22.00	0.08%	0.08%	\$7,152		· ·
Camdel Metals       21.00       0.08%       0.08%       \$6,827       \$2,978       \$9,805         Data Media Inc       21.00       0.08%       0.08%       \$6,827       \$2,978       \$9,805         Philadelphia Rust Proof Co. Inc.       21.00       0.08%       0.08%       \$6,827       \$2,978       \$9,805         United Chem-Con Corp.       21.00       0.08%       0.08%       \$0.08       \$6,827       \$2,978       \$9,805         Matheson Instrument       21.00       0.08%       0.00%       \$0.08%       \$6,534       \$2,805       \$9,385         Cantol Inc.       20.00       0.07%       0.08%       \$6,534       \$2,836       \$9,385         Contamination Control, Inc.       20.00       0.07%       0.08%       \$6,531       \$2,849       \$9,385         Mitchell Specialty       20.00       0.07%       0.07%       \$6,027       \$2,836       \$9,385         Nacco Avionics       19.00       0.83%       0.00%       \$0       0.07%       0.07%       \$6,017       \$2,694       \$8,871         US Electronic Services Corp.       19.00       0.83%       0.00%       \$0       0.07%       0.07%       0.07%       \$6,027       \$2,629       \$8,657	Bendtru Company						21.00	0.08%	0.08%	\$6,827	\$2,978	\$9,805
Philadelphia Rust Proof Co. Inc.   21.00   0.08%   0.08%   0.08%   \$6,827   \$2,978   \$9,805   \$9,805   \$0,006   \$0   \$0   \$0   \$0   \$0   \$0   \$0	Camdel Metals						21.00	0.08%	0.08%	\$6,827	\$2,978	
United Chem-Con Corp.  Matheson Instrument  20.10 0.08% 0.00% \$0.08% \$6,534 \$2,850 \$9,385 Cantol Inc.  20.10 0.07% 0.08% \$6,531 \$2,849 \$9,385 Cantol Inc.  20.00 0.07% 0.07% 0.08% \$6,531 \$2,849 \$9,385 Contamination Control, Inc.  20.00 0.07% 0.07% 0.07% \$6,502 \$2,836 \$9,385 Mitchell Specialty  Narco Avionics  19.00 0.07% 0.07% 0.07% \$6,177 \$2,694 \$8,871 U S Electronic Services Corp.  19.00 0.07% 0.07% 0.07% \$6,031 \$2,649 \$8,871 U S Electronic Services Corp.  19.00 0.07% 0.07% 0.07% \$6,031 \$2,631 \$8,661 Kulicke & Soffa  Kulicke & Soffa  Yuasa-Exide Battery Corp.  50.00 0.07% 0.07% 0.07% \$5,894 \$2,571 \$8,465 David K. Robson, Inc.  50.00 0.07% 0.07% 0.07% \$5,894 \$2,571 \$8,465 David K. Robson, Inc.	Data Media Inc						21.00	0.08%	0.08%	\$6,827	\$2,978	
Matheson Instrument       20.10       0.07%       0.08%       \$6,534       \$2,850       \$9,385         Cantol Inc.       20.09       0.07%       0.08%       \$6,531       \$2,849       \$9,380         Contamination Control, Inc.       20.00       0.07%       0.07%       \$6,502       \$2,836       \$9,388         Mitchell Specialty       20.00       0.07%       0.07%       0.00%       \$0 <t< td=""><td>Philadelphia Rust Proof Co. Inc.</td><td></td><td></td><td></td><td></td><td></td><td>21.00</td><td>0.08%</td><td>0.08%</td><td>\$6,827</td><td>\$2,978</td><td>\$9,805</td></t<>	Philadelphia Rust Proof Co. Inc.						21.00	0.08%	0.08%	\$6,827	\$2,978	\$9,805
Cantol Inc.  Contamination Control, Inc.  Control Contr	United Chem-Con Corp.						21.00	0.08%	0.00%	\$0	\$0	В
Contamination Control, Inc.  20.00 0.07% 0.07% \$6,502 \$2,836 \$9,338 Mitchell Specialty  20.00 0.07% 0.00% \$0.00% \$0 \$0 \$B Narco Avionics  19.00 0.07% 0.00% \$0.00%	Matheson Instrument						20.10	0.07%	0.08%	\$6,534	\$2,850	\$9,385
Mitchell Specialty  Narco Avionics  19.00 0.07% 0.00% \$0.00% \$0.177 \$2,694 \$8,871  U S Electronic Services Corp. 19.00 0.83% 0.00% \$0 \$0 \$0 \$0 \$0.07% 0.07% 0.00% \$0.00% \$0.00% \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	Cantol Inc.						20.09	0.07%	0.08%	\$6,531	\$2,849	\$9,380
Narco Avionics 19.00 0.07% 0.07% \$6,177 \$2,694 \$8,871 U S Electronic Services Corp. 19.00 0.83% 0.00% \$0 \$0 \$19.00 0.07% 0.00% \$	Contamination Control, Inc.						20.00	0.07%	0.07%	\$6,502	\$2,836	\$9,338
U S Electronic Services Corp. 19.00 0.83% 0.00% \$0 19.00 0.07% 0.00% \$0 0.00% \$0 86,031 \$2,631 \$8,661 \$18.55 \$0.07% 0.07% \$0.07% \$6,027 \$2,629 \$8,657 \$18.54 \$0.07% 0.07% \$0.07% \$5,894 \$2,571 \$8,465 \$18.65 \$18.65 \$18.00 0.07% 0.07% \$5,852 \$2,553 \$8,404 \$18.65 \$18.00 0.07% 0.07% \$5,852 \$2,553 \$8,404 \$18.65 \$18.00 0.07% 0.07% \$5,852 \$2,553 \$8,404 \$18.00 0.07% \$18.00 0.0	Mitchell Specialty						20.00	0.07%	0.00%	\$0	\$0	В
Deltron Incorporated       18.55       0.07%       0.07%       \$6,031       \$2,631       \$8,661         Kulicke & Soffa       18.54       0.07%       0.07%       \$6,027       \$2,629       \$8,657         Yuasa-Exide Battery Corp.       18.13       0.07%       0.07%       \$5,894       \$2,571       \$8,465         David K. Robson, Inc.       18.00       0.07%       0.07%       \$5,852       \$2,553       \$8,404         Sikkens Co.       18.00       0.07%       0.07%       \$5,852       \$2,553       \$8,404	Narco Avionics						19.00	0.07%	0.07%	\$6,177	\$2,694	\$8,871
Kulicke & Soffa       18.54       0.07%       0.07%       \$6,027       \$2,629       \$8,657         Yuasa-Exide Battery Corp.       18.13       0.07%       0.07%       \$5,894       \$2,571       \$8,465         David K. Robson, Inc.       18.00       0.07%       0.07%       \$5,852       \$2,553       \$8,404         Sikkens Co.       18.00       0.07%       0.07%       \$5,852       \$2,553       \$8,404	U S Electronic Services Corp.	19.00	0.83%	0.00%	\$0	\$0	19.00	0.07%	0.00%	\$0	\$0	В
Yuasa-Exide Battery Corp.       18.13       0.07%       0.07%       \$5,894       \$2,571       \$8,465         David K. Robson, Inc.       18.00       0.07%       0.07%       \$5,852       \$2,553       \$8,404         Sikkens Co.       18.00       0.07%       0.07%       \$5,852       \$2,553       \$8,404	Deltron Incorporated						18.55	0.07%	0.07%	\$6,031	\$2,631	\$8,661
David K. Robson, Inc.       18.00       0.07%       0.07%       \$5,852       \$2,553       \$8,404         Sikkens Co.       18.00       0.07%       0.07%       \$5,852       \$2,553       \$8,404	Kulicke & Soffa						18.54	0.07%	0.07%	\$6,027	\$2,629	\$8,657
Sikkens Co. 18.00 0.07% 0.07% \$5,852 \$2,553 \$8,404	Yuasa-Exide Battery Corp.						18.13	0.07%	0.07%	\$5,894	\$2,571	\$8,465
77	David K. Robson, Inc.						18.00	0.07%	0.07%	\$5,852	\$2,553	\$8,404
Airworks 17.00 0.06% 0.06% \$5,527 \$2,411 \$7,937	Sikkens Co.						18.00	0.07%	0.07%	\$5,852	\$2,553	\$8,404
	Airworks						17.00	0.06%	0.06%	\$5,527	\$2,411	\$7,937

<sup>\*</sup> Superceding 4/27/98 VRS

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E De micromis party.

(By Descending Order)

Generator Name	FDA Drums	FDA %	Revised FDA %	FDA Cost	FDA Premium	MPA Drums	MPA %	Revised MPA %	MPA Cost	MPA Premium	Generator Total De Minimis Payment
C. K. Systematics, Inc.						17.00	0.06%	0.06%	\$5,527	\$2,411	\$7,937
Cobra Wire & Cable Co.						17.00	0.06%	0.06%	\$5,527	\$2,411	\$7,937
Oxford Metal Products						17.00	0.06%	0.06%	\$5,527	\$2,411	\$7,937
Pennwalt Corp.						17.00	0.06%	0.06%	\$5,527	\$2,411	\$7,937
Transducer Systems Inc.						17.00	0.06%	0.06%	\$5,527	\$2,411	\$7,937
Simpson Sign Co.						16.52	0.06%	0.00%	\$0	\$0	В
C W Industries						16.04	0.06%	0.06%	\$5,215	\$2,275	\$7,489
Mida Manufacturing	8.00	0.35%	0.00%	\$0	\$0	16.00	0.06%	0.00%	\$0	\$0	В
National Metal Crafters						16.00	0.06%	0.06%	\$5,202	\$2,269	\$7,471
Olympic Tool & Machine Co.						16.00	0.06%	0.06%	\$5,202	\$2,269	\$7,471
Plate Crafters Inc.						16.00	0.06%	0.06%	\$5,202	\$2,269	\$7,471
Sharples, Inc.						16.00	0.06%	0.06%	\$5,202	\$2,269	\$7,471
Diversified Electronic Corp.						15.53	0.06%	0.06%	\$5,049	\$2,202	\$7,251
Penn Airborn Product						15.31	0.06%	0.06%	\$4,977	\$2,171	\$7,148
Aero Plating						15.00	0.05%	0.00%	\$0	\$0	В
Concurrent Computer Corp.						15.00	0.05%	0.06%	\$4,876	\$2,127	\$7,004
Gateway Terminal						15.00	0.05%	0.06%	\$4,876	\$2,127	\$7,004
Penn Dye & Finishing						15.00	0.05%	0.06%	\$4,876	\$2,127	\$7,004
Sonic Instruments						15.00	0.05%	0.06%	\$4,876	\$2,127	\$7,004
Classic Coachworks						14.00	0.05%	0.05%	\$4,551	\$1,985	\$6,537
Hurst Perf.						14.00	0.05%	0.05%	\$4,551	\$1,985	\$6,537
Repco	9.00	0.39%	0.00%	\$0	\$0	14.00	0.05%	0.00%	\$0	\$0	В
Technical Products						14.00	0.05%	0.05%	\$4,551	\$1,985	\$6,537
Boekel Industries						13.00	0.05%	0.05%	\$4,226	\$1,844	\$6,070
Bunnell Plastics, Inc.						13.00	0.05%	0.05%	\$4,226	\$1,844	\$6,070

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E De micromis party.

(By Descending Order)

Generator Name	FDA Drums	FDA %	Revised FDA %	FDA Cost	FDA Premium	MPA Drums	MPA %	Revised MPA %	MPA Cost	MPA Premium	Generator Total De Minimis Payment
Cabot Grouping Cabot Company			-			13.00	0.05%	0.05%			D, A
Defense Reutilization & Marketing G Madison, IN	Grouping					13.00	0.05%	0.05%			D, A
E/M Corporation						13.00	0.05%	0.05%	\$4,226	\$1,844	\$6,070
Fabric Development						13.00	0.05%	0.05%	\$4,226	\$1,844	\$6,070
Imperial Specialty	•					13.00	0.05%	0.05%	\$4,226	\$1,844	\$6,070
Kosempel						13.00	0.05%	0.05%	\$4,226	\$1,844	\$6,070
Bo Peep Cleaners						12.63	0.05%	0.05%	\$4,106	\$1,791	\$5,897
Connecticut Mixed						12.00	0.04%	0.00%	\$0	\$0	В
Crown Marketing Equipment Co.						12.00	0.04%	0.04%	\$3,901	\$1,702	\$5,603
Formation Inc.						12.00	0.04%	0.04%	\$3,901	\$1,702	\$5,603
K S O Industries						12.00	0.04%	0.00%	\$0	\$0	В
Mack Wayne Plastics						12.00	0.04%	0.00%	\$0	\$0	В
Techalloy Inc.						11.67	0.04%	0.04%	\$3,794	\$1,655	\$5,449
Norco Finishing						11.00	0.04%	0.04%	\$3,576	\$1,560	\$5,136
Photolastic Inc.	11.00	0.48%	0.49%	\$45,576	\$20,064	11.00	0.04%	0.04%	\$3,576	\$1,560	\$70,775
U S A Ardec						11.00	0.04%	0.04%	\$3,576	\$1,560	\$5,136
Dettra Flag Co.						10.22	0.04%	0.04%	\$3,322	\$1,449	\$4,772
Ames Supply						10.00	0.04%	0.00%	\$0	\$0	В
Neutronics						10.00	0.04%	0.04%	\$3,251	\$1,418	\$4,669
Ponderosa Disposal Co.						10.00	0.04%	0.00%			C, B
Technitrol	10.00	0.44%	0.45%	\$41,432	\$18,240	10.00	0.04%	0.04%	\$3,251	\$1,418	\$64,341
A I W Frank				٠.		9.92	0.04%	0.00%	\$0	\$0	В
Agitar, Div. of Air Buensod, Inc.						9.00	0.03%	0.00%	\$0	\$0	В

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E De micromis party.

(By Descending Order)

Generator Name	FDA Drums	FDA %	Revised FDA %	FDA Cost	FDA Premium	MPA Drums	MPA %	Revised MPA %	MPA Cost	MPA Premium	Generator Total De Minimis Payment
American Electronics Laboratories						9.00	0.03%	0.03%	\$2,926	\$1,276	\$4,202
Delaware Container Co. Inc.						9.00	0.03%	0.00%	\$0	\$0	В
DeVilbiss, Inc.						9.00	0.03%	0.03%	\$2,926	\$1,276	\$4,202
Hahn Truck Sales						9.00	0.03%	0.00%	\$0	\$0	В
Prodelin Inc.			•			9.00	0.03%	0.03%	\$2,926	\$1,276	\$4,202
Reynolds Metals						9.00	0.03%	0.03%	\$2,926	\$1,276	\$4,202
Sprague-Griffiths Div.						9.00	0.03%	0.03%	\$2,926	\$1,276	\$4,202
Suntemp Industries	9.00	0.39%	0.00%	\$0	\$0	9.00	0.03%	0.00%	\$0	\$0	В
Victualic Company of America						9.00	0.03%	0.03%	\$2,926	\$1,276	\$4,202
Ellisco						8.36	0.03%	0.03%	\$2,718	\$1,186	\$3,903
Defense Reutilization & Marketing G	rouping										
Picatinny Arsenal						8.26	0.03%	0.03%			D, A
Dentronix, Inc.						8.04	0.03%	0.03%	\$2,614	\$1,140	\$3,754
A & J Screw Machine Products						8.00	0.03%	0.03%	\$2,601	\$1,135	\$3,735
Berg Laboratories						8.00	0.03%	0.03%	\$2,601	\$1,135	\$3,735
Drexelbrook Engineering						8.00	0.03%	0.03%	\$2,601	\$1,135	\$3,735
Fairfax Cleaners						8.00	0.03%	0.03%	\$2,601	\$1,135	\$3,735
Meade Packaging						8.00	0.03%	0.03%	\$2,601	\$1,135	\$3,735
Penske V.D.A						8.00	0.03%	0.03%	\$2,601	\$1,135	\$3,735
Photofabrication Chem & Equip						7.19	0.03%	0.03%	\$2,337	\$1,020	\$3,357
Herman Goldner Co. Inc.						7.09	0.03%	0.03%	\$2,305	\$1,005	\$3,310
Bilgram Gear Company						7.00	0.03%	0.03%	\$2,276	\$993	\$3,268
Fendt Finding Co., Inc.						7.00	0.03%	0.00%	\$0	\$0	В
Giltech Inc.						7.00	0.03%	0.00%	\$0	\$0	В

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E De micromis party.

(By Descending Order)

Generator Name	FDA Drums	FDA %	Revised FDA %	FDA Cost	FDA Premium	MPA Drums	MPA %	Revised MPA %	MPA Cost	MPA Premium	Generator Total De Minimis Payment
Hallia waxaa Alb					•	7.00	0.000	0.000	40.070	****	•• •••
Hollingsworth						7.00	0.03%	0.03%	\$2,276	\$993	\$3,268
Iron Bound Heat Treating Co.						7.00	0.03%	0.03%	\$2,276	\$993	\$3,268
Krautkramer-Branson, Inc.	7.00					7.00	0.03%	0.03%	\$2,276	\$993	\$3,268
Met Fin	, 7.00	0.31%	0.31%	\$29,003	\$12,768	7.00	0.03%	0.03%	\$2,276	\$993	\$45,039
Shur-Kut Supply Corp.			•			7.00	0.03%	0.03%	\$2,276	\$993	\$3,268
Silvine						7.00	0.03%	0.03%	\$2,276	\$993	\$3,268
Valley Forge Laboratories, Inc.						7.00	0.03%	0.03%	\$2,276	\$993	\$3,268
Chrono-Log Corporation						6.28	0.02%	0.02%	\$2,042	\$891	\$2,932
ADEC						6.00	0.02%	0.00%	\$0	\$0	В
Alfa-Laval Separation, Inc.						6.00	0.02%	0.02%	\$1,951	\$851	\$2,801
Angelo						6.00	0.02%	0.02%	\$1,951	\$851	\$2,801
Coatings For Industry Inc.						6.00	0.02%	0.02%	\$1,951	\$851	\$2,801
Fluid Power, Inc.						6.00	0.02%	0.02%	\$1,951	\$851	\$2,801
Franklin Mint						6.00	0.02%	0.02%	\$1,951	\$851	\$2,801
K S M Fastening Systems Division.						6.00	0.02%	0.02%	\$1,951	\$851	\$2,801
Lovekin Corporation						6.00	0.02%	0.02%	\$1,951	\$851	\$2,801
Philco Ford	6.00	0.26%	0.27%	\$24,859	\$10,944	6.00	0.02%	0.02%	\$1,951	\$851	\$38,605
Sermetal .						6.00	0.02%	0.02%	\$1,951	\$851	\$2,801
Tele Dynamics						6.00	0.02%	0.02%	\$1,951	\$851	\$2,801
Fergusson		*				5.96	0.02%	0.02%	\$1,938	\$845	\$2,783
Boyertown Packing Co.						5.27	0.02%	0.02%	\$1,713	\$747	\$2,461
Brandt Corporation						5.00	0.02%	0.02%	\$1,625	\$709	\$2,335
Controls Service & Engineering						5.00	0.02%	0.02%	\$1,625	\$709	\$2,335
Dixon Industries Corp.						5.00	0.02%	0.02%	\$1,625	\$709	\$2,335
Ervins Crafts						5.00	0.02%	0.02%	\$1,625	\$709	\$2,335
Green Tweed Co.						5.00	0.02%	0.02%	\$1,625	\$709	\$2,335

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E De micromis party.

Generator

### Malvern TCE Superfund Site Generator Volumetric Ranking Summary\*

(By Descending Order)

Generator Name	FDA Drums	FDA %	Revised FDA %	FDA Cost	FDA Premium	MPA Drums	MPA %	Revised MPA %	MPA Cost	MPA Premium	Total De Minimis Payment
Honeywell Instruments						5.00	0.02%	0.02%	\$1,625	\$709	\$2,335
Pyco Inc.	•					5.00	0.02%	0.02%	\$1,625	\$709	\$2,335
Reynolds Cleaners						5.00	0.02%	0.02%	\$1,625	\$709	\$2,335
Woodstream Corp.					•	5.00	0.02%	0.02%	\$1,625	\$709	\$2,335
Simco Company Inc.						4.52	0.02%	0.02%	\$1,469	\$641	\$2,110
E.I.T. Inc., Enterra Instrumentation Tech						4.51	0.02%	0.02%	\$1,466	\$640	\$2,106
Richard Hurst						4.08	0.01%	0.00%	\$0	\$0	В
Airline Hydraulic Corporation						4.00	0.01%	0.01%	\$1,300	\$567	\$1,868
AMF Head Division					•	4.00	0.01%	0.01%	\$1,300	\$567	\$1,868
Artco Corp.						4.00	0.01%	0.01%	\$1,300	\$567	\$1,868
Auto-Pack						4.00	0.01%	0.01%	\$1,300	\$567	\$1,868
Chem Cell Corporation						4.00	0.01%	0.01%	\$1,300	\$567	\$1,868
Doehler - Jarvis						4.00	0.01%	0.01%	\$1,300	\$567	\$1,868
E. Hopkins Co.						4.00	0.01%	0.01%	\$1,300	\$567	\$1,868
Ext -Corporol						4.00	0.01%	0.00%	\$0	\$0	В
Far East Foods						4.00	0.01%	0.01%	\$1,300	\$567	\$1,868
Hale Pumps, Inc.						4.00	0.01%	0.01%	\$1,300	\$567	\$1,868
Keystone Transformer						4.00	0.01%	0.01%	\$1,300	\$567	\$1,868
McHugh Railroad Maint Equip Co.						4.00	0.01%	0.01%	\$1,300	\$567	\$1,868
Monitor Systems	4.00	0.18%	0.18%	\$16,573	\$7,296	4.00	0.01%	0.01%	\$1,300	\$567	\$25,736
Phillips & Jacob	4.00	0.18%	0.18%			4.00	0.01%	0.01%			С
SGL						4.00	0.01%	0.01%	\$1,300	\$567	\$1,868
Sanivan Labs						4.00	0.01%	0.01%	\$1,300	\$567	\$1,868
Scott Paper Corp.						4.00	0.01%	0.01%	\$1,300	\$567	\$1,868
Solar Atmospheres						4.00	0.01%	0.01%	\$1,300	\$567	\$1,868
Sweda/Hugin Group						4.00	0.01%	0.01%	\$1,300	\$567	\$1,868

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E De micromis party.

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ORIGINAL

(By Descending Order)

Generator Name	FDA Drums	FDA %	Revised FDA %	FDA Cost	FDA Premium	MPA Drums	MPA %	Revised MPA %	MPA Cost	MPA Premium	Generator Total De Minimis Payment
					٠						
United Contamination Controls Inc.						4.00	0.01%	0.01%	\$1,300	\$567	\$1,868
Gala Industries						3.55	0.01%	0.01%	\$1,154	\$503	\$1,658
Shared Medical Systems						3.27	0.01%	0.01%	\$1,063	\$464	\$1,527
Sterling Fleishman Co.	•					3.11	0.01%	0.01%	\$1,011	\$441	\$1,452
A. Johnson & Co., Inc.						3.00	0.01%	0.01%	\$975	\$425	\$1,401
Brooks Instrument						3.00	0.01%	0.01%	\$975	\$425	\$1,401
Danco Tool & Mold Co.						3.00	0.01%	0.01%	\$975	\$425	\$1,401
E M R Photoelectric						3.00	0.01%	0.01%	\$975	\$425	\$1,401
Emeco	3.00	0.13%	0.13%	\$12,430	\$5,472	3.00	0.01%	0.01%	\$975	\$425	\$19,302
Frontier Chemical Waste Process						3.00	0.01%	0.01%	\$975	\$425	\$1,401
Glah Bros., Inc.						3.00	0.01%	0.01%	\$975	\$425	\$1,401
H & L Cleaners						3.00	0.01%	0.00%	\$0	\$0	В
L & S Tool and Machine Co.						3.00	0.01%	0.01%	\$975	\$425	\$1,401
Lincoln						3.00	0.01%	0.01%	\$975	\$425	\$1,401
Matthew International						3.00	0.01%	0.01%	\$975	\$425	\$1,401
Ni-Chro						3.00	0.01%	0.01%	<b>\$9</b> 75	\$425	\$1,401
Peripheral Dynamics						3.00	0.01%	0.01%	\$975	\$425	\$1,401
Permutit/Sybron Corp.					•	3.00	0.01%	0.01%	\$975	\$425	\$1,401
Precision Arts Mfg.						3.00	0.01%	0.01%	\$975	\$425	\$1,401
Singer Co.						3.00	0.01%	0.01%	\$975	\$425	\$1,401
Troemner, Henry						3.00	0.01%	0.01%	\$975	\$425	\$1,401
Wave Energy Systems						3.00	0.01%	0.00%	\$0	\$0	В
Wilkinson Industries						3.00	0.01%	0.00%	\$0	\$0	В
Industrial Systems Design						2.64	0.01%	0.00%	\$0	\$0	В
Lowry's						2.55	0.01%	0.00%	\$0	\$0	В
R C Kletzing						2.50	0.01%	0.01%	\$813	\$355	\$1,167

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E De micromis party.

(By Descending Order)

Generator Name	FDA Drums	FDA %	Revised FDA %	FDA Cost	FDA Premium	MPA Drûms	MPA %	Revised MPA %	MPA Cost	MPA Premium	Generator Total De Minimis Payment
<b>-</b>											
Petter Engraving Inc.						2.04	0.01%	0.01%	\$663	\$289	\$952
Boeing Property				•		2.00	0.01%	0.01%	\$650	\$284	\$934
Brittany's Ltd.					•	2.00	0.01%	0.00%	\$0	\$0	В
Chem-Solv						2.00	0.01%	0.01%	\$650	\$284	\$934
Delmaco Mfg. Inc.						2.00	0.01%	0.01%	\$650	\$284	\$934
Dynamic Services						2.00	0.01%	0.00%	\$0	\$0	В
Gulf & Western						2.00	0.01%	0.01%	\$650	\$284	\$934
Hulltronics						2.00	0.01%	0.01%	\$650	\$284	\$934
Johnson Company						· 2.00	0.01%	0.01%	\$650	\$284	\$934
PHLinc.						2.00	0.01%	0.01%	\$650	\$284	\$934
Paris Business Forms						2.00	0.01%	0.01%	\$650	\$284	\$934
Pepco Manufacturing Co.	•					2.00	0.01%	0.01%	\$650	\$284	\$934
Peter Paul Cadbury Co.						2.00	0.01%	0.01%	\$650	\$284	\$934
Sperry Univac						2.00	0.01%	0.01%	\$650	\$284	\$934
Thermoseat Glass Corporation						2.00	0.01%	0.01%	\$650	\$284	\$934
Albright Paper & Box Corp.						1.11	0.00%	0.00%			E
Hough/Loew Associates						1.09	0.00%	0.00%			E
A. Duie Pyle						1.00	0.00%	0.00%			E
Ace Service Corp.						1.00	0.00%	0.00%			E
Antenna Corp.						1.00	0.00%	0.00%			E
Cincinnati Time						1.00	0.00%	0.00%			E
Devon Apparel						1.00	0.00%	0.00%			E
Durawood						1.00	0.00%	0.00%			E
Electro Tech Systems Inc.			•			1.00	0.00%	0.00%			Е
Fairchild Space Systems						1.00	0.00%	0.00%			E
H I Services Inc.						1.00	0.00%	0.00%	,		E

<sup>\*</sup> Superceding 4/27/98 VRS

A De maximus party and does not qualify for de minimis settlement offer.

B Party has been identified as an orphan.

C Total payment for broker/transporter is detailed on the separate Broker/Transporter Volumetric Ranking Summary.

D If your company appears under a grouping, please refer to the combined entities throughout the alphabetical Volumetric Ranking Summary.

E De micromis party.

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(By Descending Order)

Generator Name	FDA Drums	FDA %	Revised FDA %	FDA Cost	FDA Premium	MPA Drums	MPA %	Revised MPA %	MPA Cost	MPA Premium	Generator Total De Minimis Payment
Mars Money Systems						1.00	0.00%	0.00%			E
National Computer Systems						1.00	0.00%	0.00%			E
National Products						1.00	0.00%	0.00%			E
Perkin-Elmer						1.00	0.00%	0.00%			E
Pocono Foundry Inc.						1.00	0.00%	0.00%			E
Schmidt Brewery Co.						1.00	0.00%	0.00%			E
Schramm Inc.						1.00	0.00%	0.00%			E
Specialty Glass Products						1.00	0.00%	0.00%			E
Tube Methods						1.00	0.00%	0.00%			E
Tudor Tech Inc.						1.00	0.00%	0.00%			E
Welding Co.						1.00	0.00%	0.00%			E
TRW Inc.						0.45	0.00%	0.00%			E
Budd Co.						0.36	0.00%	0.00%			E
Jenson, Homer						0.36	0.00%	0.00%			E
Wittronics						0.30	0.00%	0.00%			E
Lightman Drum Co.						0.27	0.00%	0.00%			С
Mack Electric						0.27	0.00%	0.00%			E
Chester County Intermediate Unit		×**				0.07	0.00%	0.00%			E
Thomson Engineering Co.	0.02	0.00%	0.00%			0.02	0.00%	0.00%			E
De Mimimis Total:	573.00	25.09%	23.48%	\$2,158,627	\$950,287	9854.37	35.69%	33.51%	\$2,795,132	\$1,219,287	\$7,123,333
Total:	2283.71	100.00%	100.00%			27608.87	100.00%	100.00%			

<sup>\*</sup> Superceding 4/27/98 VRS

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E De micromis party.

### Malvern TCE Superfund Site Explanation Sheet for the Final Volumetric Ranking Summary (VRS)

The following provides an explanation of the information provided in the attached Malvern TCE Superfund Site (the Site) Final Volumetric Ranking Summary (VRS). Please refer to the example provided below for an illustration of the process used to calculate individual total payment.'

PRP Name	FDA Drums	FDA %	FDA Revised %	FDA Cost	FDA Premium	MPA Drums	MPA %	MPA Revised %	MPA Cost	MPA Premium	Total Payment
ABC Corporation	34	1.49 %	1.52 %	\$141,249	\$62,182	82	0.29 %	0.30 %	\$26,325	\$11,483	\$241,239

<u>PRP Name</u> = The name of the specific potentially responsible party (PRP). Subsidiaries may be listed separately from parent companies; therefore, please review the VRS in its entirety to identify company subsidiaries that may have done business with Chemclene Corporation.

FDA Drums = The total number for drums sent to the Site before August 1, 1975.

FDA % = The total number of drums sent by the PRP prior to August 1, 1975, divided by the total number of documented drums received by Chemclene Corporation prior to August 1, 1975, multiplied by 100.

<u>FDA Revised %</u> = The total number of drums sent by the PRP prior to August 1, 1975, divided by the FDA total number of all non-orphan<sup>2</sup> drums received by Chemclene Corporation prior to August 1, 1975, multiplied by 100.

FDA Cost = The FDA Revised % divided by 100 and multiplied by \$9,263,078, the total past cost<sup>3</sup> and estimated future cost associated with the FDA.

FDA Premium = The FDA Revised % divided by 100 and multiplied by the future estimated costs for the FDA (\$8,155,725) multiplied by the premium (50%).

<u>MPA Drums</u> = The total number of drums received at the Site, regardless of the date, for which the PRP is responsible.

MPA % = The total number of drums sent by the PRP, regardless of date, divided by the total number of documented drums received by Chemclene Corporation, multiplied by 100.

<u>MPA Revised %</u> = The total number of drums sent by the PRP, regardless of date, divided by the total number of non-orphan drums<sup>1</sup> received by Chemclene Corporation, regardless of date, multiplied by 100.

MPA Cost = MPA Revised % divided by 100 and multiplied by \$8,680,799, the total past cost<sup>2</sup> and estimated future cost associated with the MPA.

MPA Premium = The MPA Revised % divided by 100 and multiplied by the future estimated costs for the MPA (\$7,573,426) multiplied by the premium (50%).

<u>Total Payment</u> = FDA Cost + FDA Premium + MPA Cost + MPA Premium.

¹ The FDA Cost, FDA Premium, MPA Cost, and MPA Premium figures are rounded to zero decimal places for display purposes only. The full number is used in the calculation of the Total Payment.

<sup>&</sup>lt;sup>2</sup> Non-orphan drums are drums for which there is either a viable generator or a viable broker/transporter.

The total past cost for the Site as of June 17, 1997, is \$2,214,705.00. Half of this cost was allocated to the FDA, with the other half being allocated to the MPA.

Generator Name	FDA Drums	FDA %	Revised FDA %	FDA Cost	FDA Premium	MPA Drums	MPA %	Revised MPA %	MPA Cost	MPA Premium	Generator Total De Minimis Payment
A & J Screw Machine Products						8.00	0.03%	0.03%	\$2,601	\$1,135	\$3,735
A & L Handles						43.00	0.16%	0.16%	\$13,979	\$6,098	\$20,077
A I W Frank						9.92	0.04%	0.00%	\$0	\$0	В
A. Duie Pyle						1.00	0.00%	0.00%			D
A. Johnson & Co., Inc.						3.00	0.01%	0.01%	\$975	\$425	\$1,401
A. S. Koch Corp.	137.00	6.00%	6.13%			250.00	0.91%	0.94%			Α
Accumetrics						25.00	0.09%	0.09%	\$8,127	\$3,545	\$11,673
. Accuracy Scientific	3.00	0.13%	0.13%	\$12,430	\$5,472	34.18	0.12%	0.13% `	\$11,112	\$4,847	\$33,861
Ace Service Corp.						1.00	0.00%	0.00%			D
Acro Labels						86.00	0.31%	0.32%	\$27,958	\$12,196	\$40,154
Action Manufacturing Company	49.18	2.15%	2.20%			220.31	0.80%	0.83%			A
ADEC						6.00	0.02%	0.00%	\$0	\$0	В
Adelphia Graphics Systems						40.05	0.15%	0.15%	\$13,020	\$5,680	\$18,700
Aero Plating						15.00	0.05%	0.00%	\$0	\$0	В
Agitar, Div. of Air Buensod, Inc.						9.00	0.03%	0.00%	\$0	\$0	В
Airline Hydraulic Corporation						4.00	0.01%	0.01%	\$1,300	\$567	\$1,868
Airworks						17.00	0.06%	0.06%	\$5,527	\$2,411	\$7,937
Albright Paper & Box Corp.						1.11	0.00%	0.00%			D
ALCOA	40.00	1.75%	1.79%			275.00	1.00%	1.03%			Α
Alfa-Laval Separation, Inc.						6.00	0.02%	0.02%	\$1,951	\$851	\$2,801
Allister Mfg.						36.00	0.13%	0.13%	\$11,704	\$5,105	\$16,809
Amchem						70.00	0.25%	0.26%	\$22,757	\$9,927	\$32,684
American Electronics Laboratories						, 9.00	0.03%	0.03%	\$2,926	\$1,276	\$4,202
Ames Supply						10.00	0.04%	0.00%	\$0	\$0	В
Ametek, Inc.	9.00	0.39%	0.40%	\$37,289	\$16,416	42.18	0.15%	0.16%	\$13,713	\$5,982	\$73,399
AMF Head Division						4.00	0.01%	0.01%	\$1,300	\$567	\$1,868
Amp Corp.	34.00	1.49%	1.52%	\$140,870	\$62,015	133.00	0.48%	0.50%	\$43,238	\$18,861	\$264,984

<sup>\*</sup> Superceding 4/27/98 VRS

A De maximus party and does not qualify for de minimis settlement offer.

B Party has been identified as an orphan.

C Total payment for broker/transporter is detailed on the separate Broker/Transporter Volumetric Ranking Summary.

D De micromis party.

Generator Name	FDA Drums	FDA %	Revised FDA %	FDA Cost	FDA Premium	MPA Drums	MPA %	Revised MPA %	MPA Cost	MPA Premium	Generator Total De Minimis Payment
Amuneal Mfg. Co.						23.00	0.08%	0.09%	\$7,477	\$3,262	\$10,739
Anchor Darling Co.						28.00	0.10%	0.10%	\$9,103	\$3,971	\$13,074
Angelo						6.00	0.02%	0.02%	\$1,951	\$851	\$2,801
Antenna Corp.						1.00	0.00%	0.00%			D
Ark Products	5.00	0.22%	0.22%	\$20,716	\$9,120	52.00	0.19%	0.19%	\$16,905	\$7,374	\$54,115
Armstrong Cork Co.						522.70	1.89%	1.96%			Α
Artco Corp.						4.00	0.01%	0.01%	\$1,300	\$567	\$1,868
Asplundh Manufac. Co.						37.00	0.13%	0.14%	\$12,029	\$5,247	\$17,276
Aston-Hill Co.						74.00	0.27%	0.00%	\$0	\$0	В
Athena Controls						42.00	0.15%	0.16%	\$13,654	\$5,956	\$19,610
Auto-Pack						4.00	0.01%	0.01%	\$1,300	\$567	\$1,868
Aydin						251.82	0.91%	0.94%			Α
B. P. Oil						32.00	0.12%	0.12%	\$10,403	\$4,538	\$14,941
Beckett Corporation		-				250.55	0.91%	0.94%			Α
Beemer Engineering	4.00	0.18%	0.18%	\$16,573	\$7,296	22.00	0.08%	0.08%	\$7,152	\$3,120	\$34,141
Bendtru Company						21.00	0.08%	0.08%	\$6,827	\$2,978	\$9,805
Berg Laboratories						8.00	0.03%	0.03%	\$2,601	\$1,135	\$3,735
Biddle Instrument Company						42.00	0.15%	0.16%	\$13,654	\$5,956	\$19,610
Bilgram Gear Company						7.00	0.03%	0.03%	\$2,276	\$993	\$3,268
Bishop Tube Co.	60.00	2.63%	2.68%	\$248,594	\$109,438	130.00	0.47%	0.49%	\$42,263	\$18,436	\$418,731
Bo Peep Cleaners						12.63	0.05%	0.05%	\$4,106	\$1,791	\$5,897
Boeing Property						2.00	0.01%	0.01%	\$650	\$284	\$934
Boekel Industries						13.00	0.05%	0.05%	\$4,226	\$1,844	\$6,070
Boyertown Packing Co.				:		5.27	0.02%	0.02%	\$1,713	\$747	\$2,461
Brandt Corporation				•		5.00	0.02%	0.02%	\$1,625	\$709	\$2,335
Brittany's Ltd.						2.00	0.01%	0.00%	\$0	\$0	В
Brooks Instrument						3.00	0.01%	0.01%	\$975	\$425	\$1,401

<sup>\*</sup> Superceding 4/27/98 VRS

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D De micromis party.

Generator Name	FDA Drums	FDA %	Revised FDA %	FDA Cost	FDA Premium	MPA Drums	MPA %	Revised MPA %	MPA Cost	MPA Premium	Generator Total De Minimis Payment
Brumbaugh Industries						37.00	0.13%	0.14%	\$12,029	\$5,247	\$17,276
Budd Co.						0.36	0.00%	0.00%	*	+ -, <b>-</b>	D
Bunnell Plastics, Inc.						13.00	0.05%	0.05%	\$4,226	\$1,844	\$6,070
Burroughs Corp.	147.00	6.44%	6.58%			519.54	1.88%	1.95%	, ,,	,	A
C S S International Corp.	8.00	0.35%	0.36%	\$33,146	\$14,592	39.86	0.14%	0.15%	\$12,958	\$5,653	\$66,349
C W Industries				•	·	16.04	0.06%	0.06%	\$5,215	\$2,275	\$7,489
C. K. Systematics, Inc.						17.00	0.06%	0.06%	\$5,527	\$2,411	\$7,937
Cabot Grouping						401.00	1.45%	1.50%			Α
Cabot Berylco						143.00	0.52%	0.54%			A
Cabot Wrought Products						27.00	0.10%	0.10%			А
Cabot Company			:			13,00	0.05%	0.05%			А
Kawecki Berylco						218.00	0.79%	0.82%			A
Camdel Metals						21.00	0.08%	0.08%	\$6,827	\$2,978	\$9,805
Cantol Inc.						20.09	0.07%	0.08%	\$6,531	\$2,849	\$9,380
Carvel Hail Inc						37.00	0.13%	0.14%	\$12,029	\$5,247	\$17,276
Chem Cell Corporation						4.00	0.01%	0.01%	\$1,300	\$567	\$1,868
Chem Par						39.00	0.14%	0.15%	\$12,679	\$5,531	\$18,210
Chem-Solv						2.00	0.01%	0.01%	\$650	\$284	\$934
Chester County Intermediate Unit						0.07	0.00%	0.00%			D
Chobert Associates						85.15	0.31%	0.32%	\$27,682	\$12,075	\$39,757
Chrono-Log Corporation						6.28	0.02%	0.02%	\$2,042	\$891	\$2,932
Cincinnati Time						1.00	0.00%	0.00%			D
Classic Coachworks	•				•	14.00	0.05%	0.05%	\$4,551	\$1,985	\$6,537
Clifton Precision	34.00	1.49%	1.52%	\$140,870	\$62,015	82.00	0.30%	0.31%	\$26,658	\$11,629	\$241,172
Coatings For Industry Inc.						6.00	0.02%	0.02%	\$1,951	\$851	\$2,801
Cobra Wire & Cable Co.						17.00	0.06%	0.06%	\$5,527	\$2,411	\$7,937

Superceding 4/27/98 VRS

A De maximus party and does not qualify for de minimis settlement offer.

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D De micromis party.

Generator Name	FDA Drums	FDA %	Revised FDA %	FDA Cost	FDA Premium	MPA Drums	MPA %	Revised MPA %	MPA Cost	MPA Premium	Generator Total De Minimis Payment
Concurrent Computer Corp.						15.00	0.05%	0.06%	\$4,876	\$2,127	\$7,004
Connecticut Mixed						12.00	0.04%	0.00%	\$0	\$0	В
Container Research Corporation						83.00	0.30%	0.31%	\$26,983	\$11,771	\$38,754
Contamination Control, Inc.						20.00	0.07%	0.07%	\$6,502	\$2,836	\$9,338
Continental Vanguard, Inc.						65.45	0.24%	0.25%	, ,	·-,	C
Control Switch	3.00	0.13%	0.00%	\$0	\$0	32.48	0.12%	0.00%	\$0	\$0	В
Controls Service & Engineering					·	5.00	0.02%	0.02%	\$1,625	\$709	\$2,335
Cook Specialty Company						42.00	0.15%	0.16%	\$13,654	\$5,956	\$19,610
Crown Marketing Equipment Co.						12.00	0.04%	0.04%	\$3,901	\$1,702	\$5,603
Cyprus Foote Mineral Co.						495.00	1.79%	1.85%			Α
Danco Tool & Mold Co.						3.00	0.01%	0.01%	\$975	\$425	\$1,401
Data Media Inc						21.00	0.08%	0.08%	\$6,827	\$2,978	\$9,805
David K. Robson, Inc.						18.00	0.07%	0.07%	\$5,852	\$2,553	\$8,404
Decision Data						36.00	0.13%	0.13%	\$11,704	\$5,105	\$16,809
Defense Reutilization & Marketing Gro	ouping					349.98	1.27%	1.31%			А
Madison, IN						13.00	0.05%	0.05%			Α.
DRMS/PNSY						200.72	0.73%	0.75%			А
DRMO PHILADELPHIA						54.00	0.20%	0.20%			А
Picatinny Arsenal						8.26	0.03%	0.03%			A
DRMO Knox						74.00	0.27%	0.28%			Α
Delaware Container Co. Inc.						9.00	0.03%	0.00%	\$0	\$0	В
Delbar Products						328.50	1.19%	1.23%		n F	Α
Delco Wire & Cable, Inc./ Delco Elec.						47.00	0.17%	0.00%	\$0	\$0	В
Delmaco Mfg. Inc.						2.00	0.01%	0.01%	\$650	\$284	\$934
Deitron Incorporated						18.55	0.07%	0.07%	\$6,031	\$2,631	\$8,661
Dentronix, Inc.						8.04	0.03%	0.03%	\$2,614	\$1,140	\$3,754

<sup>\*</sup> Superceding 4/27/98 VRS

A De maximus party and does not qualify for de minimis settlement offer.

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 $<sup>^{\</sup>rm C}$  Total payment for broker/transporter is detailed on the separate Broker/Transporter Volumetric Ranking Summary.

D De micromis party.

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# Malvern TCE Superfund Site Generator Volumetric Ranking Summary\*

Generator Name	FDA Drums	FDA %	Revised FDA %	FDA Cost	FDA Premium	MPA Drums	MPA %	Revised MPA %	MPA Cost	MPA Premium	Generator Total De Minimis Payment
Dettra Flag Co.						10.22	0.04%	0.04%	#2 22 <b>2</b>		4.770
DeVilbiss, Inc.						9.00	0.04%	0.04%	\$3,322	\$1,449	\$4,772
•						1.00			\$2,926	\$1,276	\$4,202
Devon Apparel  Dippley Corporation of America						-	0.00%	0.00%	<b>#0.750</b>	04054	D
Display Corporation of America						30.00	0.11%	0.11%	\$9,753	\$4,254	\$14,007
Diversified Electronic Corp.						15.53	0.06%	0.06%	\$5,049	\$2,202	\$7,251
Dixon Industries Corp.						5.00	0.02%	0.02%	\$1,625	\$709	\$2,335
Doehler - Jarvis						4.00	0.01%	0.01%	\$1,300	\$567	\$1,868
Dorado Fabrics						119.00	0.43%	0.00%	\$0	\$0	В
Drexelbrook Engineering						8.00	0.03%	0.03%	\$2,601	\$1,135	<b>\$3,735</b>
Durawood						1.00	0.00%	0.00%			D
Dynamic Services						2.00	0.01%	0.00%	\$0	\$0	В
E M R Photoelectric						3.00	0.01%	0.01%	\$975	\$425	\$1,401
E. Hopkins Co.						4.00	0.01%	0.01%	\$1,300	\$567	\$1,868
E.I.T. Inc., Enterra Instrumentation Tech						4.51	0.02%	0.02%	\$1,466	\$640	\$2,106
E/M Corporation						13.00	0.05%	0.05%	\$4,226	\$1,844	\$6,070
East West Label Co. Inc.						49.50	0.18%	0.19%	\$16,092	\$7,020	\$23,112
Eaton	36.00	1.58%	1.61%	\$149,157	\$65,663	38.00	0.14%	0.14%	\$12,354	\$5,389	\$232,562
Elco Corporation	61.00	2.67%	2.73%	\$252,738	\$111,262	61.00	0.22%	0.23%	\$19,831	\$8,651	\$392,481
Electro Platers of York Inc.						199.36	0.72%	0.75%	\$64,811	\$28,272	\$93,083
Electro Tech Systems Inc.						1.00	0.00%	0.00%			D
Electroloy						33.00	0.12%	0.12%	\$10,728	\$4,680	\$15,408
Electronic Display Systems/Hercules						224.00	0.81%	0.84%			A
Ellisco				•		8.36	0.03%	0.03%	\$2,718	\$1,186	\$3,903
Erneco	3.00	0.13%	0.13%	\$12,430	\$5,472	3.00	0.01%	0.01%	\$975	\$425	\$19,302
Empire Abrasive & Equipment Corp.				No.		103.80	0.38%	0.39%	\$33,745	\$14,720	\$48,465
Ervins Crafts						5.00	0.02%	0.02%	\$1,625	\$709	\$2,335
Ext -Corporol						4.00	0.01%	0.00%	\$0	\$0	В

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B Party has been identified as an orphan.

C Total payment for broker/transporter is detailed on the separate Broker/Transporter Volumetric Ranking Summary.

D De micromis party.

Generator Name	FDA Drums	FDA %	Revised FDA %	FDA Cost	FDA Premium	MPA Drums	MPA %	Revised MPA %	MPA Cost	MPA Premium	Generator Total De Minimis Payment
						<u> </u>			- · · · · · · · ·		
F B F Industries Inc.						130.00	0.47%	0.49%	\$42,263	\$18,436	\$60,698
Fabric Development						13.00	0.05%	0.05%	\$4,226	\$1,844	\$6,070
Fairchild Space Systems						1.00	0.00%	0.00%			D
Fairfax Cleaners						8.00	0.03%	0.03%	\$2,601	\$1,135	\$3,735
Far East Foods						4.00	0.01%	0.01%	\$1,300	\$567	\$1,868
Fendt Finding Co., Inc.						7.00	0.03%	0.00%	\$0	\$0	В
Fergusson						5.96	0.02%	0.02%	\$1,938	\$845	\$2,783
Fischer & Porter Co/Andrews Glass	93.00	4.07%	4.16%			794.50	2.88%	2.98%			Α
Fluid Power, Inc.						6.00	0.02%	0.02%	\$1,951	\$851	\$2,801
Formation Inc.						12.00	0.04%	0.04%	\$3,901	\$1,702	\$5,603
Formosa Plastics						39.00	0.14%	0.15%	\$12,679	\$5,531	\$18,210
Franklin Mint						6.00	0.02%	0.02%	\$1,951	\$851	\$2,801
Frazer-Volpe Corporation						23.82	0.09%	0.09%	\$7,744	\$3,378	\$11,122
Frontier Chemical Waste Process						3.00	0.01%	0.01%	\$975	\$425	\$1,401
G. K. Garrett Corp.						27.45	0.10%	0.10%	\$8,924	\$3,893	\$12,817
Gala Industries						3.55	0.01%	0.01%	\$1,154	\$503	\$1,658
Gas Springs						23.00	0.08%	0.09%	\$7,477	\$3,262	\$10,739
Gateway Terminal						15.00	0.05%	0.06%	\$4,876	\$2,127	\$7,004
General Electric						191.00	0.69%	0.72%	\$62,094	\$27,086	\$89,180
General Motors Corporation	5.00	0.22%	0.22%			517.00	1.87%	1.94%			Α
Giles & Ransome						112.00	0.41%	0.42%	\$36,411	\$15,883	\$52,294
Giltech Inc.						7.00	0.03%	0.00%	\$0	\$0	В
Glah Bros., Inc.						3.00	0.01%	0.01%	\$975	\$425	\$1,401
Globe Solvents						66.36	0.24%	0.00%	\$0	. \$0	B
Gould Inc.						68.00	0.25%	0.25%	\$22,107	\$9,643	\$31,750
Graphic Packaging Corp.						59.57	0.22%	0.22%	\$19,366	\$8,448	\$27,814
Green Tweed Co.						5.00	0.02%	0.02%	\$1,625	\$709	\$2,335

<sup>\*</sup> Superceding 4/27/98 VRS

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B Party has been identified as an orphan.

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D De micromis party.

Generator Name	FDA Drums	FDA %	Revised FDA %	FDA Cost	FDA Premium	MPA Drums	MPA %	Revised MPA %	MPA Cost	MPA Premium	Generator Total De Minimis Payment
Gulf & Western						2.00	0.01%	0.01%	\$650	\$284	\$934
H & L Cleaners						3.00	0.01%	0.00%	\$0	\$0	В
H - V Industries, Inc.						151.50	0.55%	0.57%	\$49,252	\$21,485	\$70,737
H I Services Inc.						1.00	0.00%	0.00%			D
Hahn Truck Sales						9.00	0.03%	0.00%	\$0	\$0	В
Hale Pumps, Inc.						4.00	0.01%	0.01%	\$1,300	\$567	\$1,868
Hamilton Precision Metals						472.06	1.71%	1.77%			A
Hamilton Technology, Inc.						1234.00	4.47%	4.62%			A
Hamilton Watch Co.	197.00	8.63%	8.81%			904.00	3.27%	3.39%			A
Handy & Harman Tube Co. Inc						229.18	0.83%	0.86%			A
Heel Co.						31.00	0.11%	0.12%	\$10,078	\$4,396	\$14,474
Herman Goldner Co. Inc.						7.09	0.03%	0.03%	\$2,305	\$1,005	\$3,310
High Energy Company						84.64	0.31%	0.32%	\$27,516	\$12,003	\$39,519
Hollingsworth						7.00	0.03%	0.03%	\$2,276	\$993	\$3,268
Honeywell Instruments						5.00	0.02%	0.02%	\$1,625	\$709	\$2,335
Hough/Loew Associates						1.09	0.00%	0.00%			D
Hulltronics						2.00	0.01%	0.01%	\$650	\$284	\$934
Hurst Perf.						14.00	0.05%	0.05%	\$4,551	\$1,985	\$6,537
Imperial Specialty						13.00	0.05%	0.05%	\$4,226	\$1,844	\$6,070
Industrial Systems Design						2.64	0.01%	0.00%	\$0	\$0	. В
Iron Bound Heat Treating Co.						7.00	0.03%	0.03%	\$2,276	\$993	\$3,268
J W Rex Co.	21.00	0.92%	0.94%	\$87,008	\$38,303	, 86.00	0.31%	0.32%	\$27,958	\$12,196	\$165,466
J & J Spill						43.00	0.16%	0.16%			С
James Spring & Wire Co.	2.00	0.09%	0.09%	\$8,286	\$3,648	113.00	0.41%	0.42%	\$36,736	\$16,025	\$64,695
Jenson, Homer						0.36	0.00%	0.00%			D
Jetshapes Inc.						27.00	0.10%	0.10%	\$8,778	\$3,829	\$12,607
John Evan's & Sons, Inc.						203.29	0.74%	0.76%	\$66,089	\$28,829	\$94,918

Superceding 4/27/98 VRS

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D De micromis party.

Generator Name	FDA Drums	FDA %	Revised FDA %	FDA Cost	FDA Premium	MPA Drums	MPA %	Revised MPA %	MPA Cost	MPA Premium	Generator Total De Minimis Payment
Johnson Company						2.00	0.01%	0.01%	\$650	\$284	\$934
Johnson-Matthey						29.55	0.11%	0.11%	\$9,607	\$4,191	\$13,797
K - D Tool Manufacturing						95.00	0.34%	0.36%	\$30,884	\$13,472	\$44,357
K S M Fastening Systems Division						6.00	0.02%	0.02%	\$1,951	\$851	\$2,801
K S O Industries						12.00	0.04%	0.00%	\$0	\$0	В
Kawneer Corp.						26.00	0.09%	0.10%	\$8,453	\$3,687	\$12,140
Keystone Transformer						4.00	0.01%	0.01%	\$1,300	\$567	\$1,868
Kim Manufacturing						283.00	1.03%	1.06%			A
Kosempel						13.00	0.05%	0.05%	\$4,226	\$1,844	\$6,070
Krautkramer-Branson, Inc.						7.00	0.03%	0.03%	\$2,276	\$993	\$3,268
Kulicke & Soffa						18.54	0.07%	0.07%	\$6,027	\$2,629	\$8,657
Ł & S Tool and Machine Co.						3.00	0.01%	0.01%	\$975	\$425	\$1,401
LaFrance Corp.	12.00	0.53%	0.54%			415.00	1.50%	1.55%			A
Laminators Inc.						29.00	0.11%	0.11%	\$9,428	\$4,113	\$13,540
Lancaster Machinery Co.						43.00	0.16%	0.16%	\$13,979	\$6,098	\$20,077
Lavelle Aircraft Co.						189.55	0.69%	0.71%	\$61,622	\$26,881	\$88,503
Leeds & Northrop						145.72	0.53%	0.55%	\$47,373	\$20,665	\$68,038
Lightman Drum Co.						0.27	0.00%	0.00%			С
Lincoln						3.00	0.01%	0.01%	\$975	\$425	\$1,401
London Harness & Cable Co.						26.00	0.09%	0.10%	\$8,453	\$3,687	\$12,140
Lovekin Corporation						6.00	0.02%	0.02%	\$1,951	\$851	\$2,801
Lowry's						2.55	0.01%	0.00%	\$0	\$0	В
M Q S Inspection Inc./Magnaflux						46.00	0.17%	0.17%	\$14,954	\$6,523	\$21,478
Mack Electric						. 0.27	0.00%	0.00%		"	D
Mack Wayne Plastics						12.00	0.04%	0.00%	· \$0	\$0	В
Malco						94.04	0.34%	0.35%	\$30,572	\$13,336	\$43,908
Manorgraphics						36.84	0.13%	0.14%	\$11,977	\$5,224	\$17,201
							5,,5.5	<b></b>	<b>4</b>	4-1	Ψ11,601

<sup>\*</sup> Superceding 4/27/98 VRS

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D De micromis party.

Generator Name	FDA Drums	FDA %	Revised FDA %	FDA Cost	FDA Premium	MPA Drums	МРА %	Revised MPA %	MPA Cost	MPA Premium	Generator Total De Minimis Payment
					3						
Mars Electronics Inc.						110.99	0.40%	0.42%	\$36,083	\$15,740	\$51,822
Mars Money Systems						1.00	0.00%	0.00%			D
Materials Electronic Products						81.00	0.29%	0.30%	\$26,333	\$11,487	\$37,820
Matheson Instrument						20.10	0.07%	0.08%	\$6,534	\$2,850	\$9,385
Matthew International						3.00	0.01%	0.01%	\$975	\$425	\$1,401
McClarin Plastics						195.04	0.71%	0.73%	\$63,407	\$27,659	\$91,066
McGee Industries Inc.						97.00	0.35%	0.36%	\$31,534	\$13,756	\$45,290
McHugh Railroad Maint Equip Co.						4.00	0.01%	0.01%	\$1,300	\$567	\$1,868
Meade Packaging						8.00	0.03%	0.03%	\$2,601	\$1,135	\$3,735
Met Fin	7.00	0.31%	0.31%	\$29,003	\$12,768	7.00	0.03%	0.03%	\$2,276	\$993	\$45,039
Mida Development						57.50	0.21%	0.22%	\$18,693	\$8,154	\$26,847
Mida Manufacturing	8.00	0.35%	0.00%	\$0	\$0	16.00	0.06%	0.00%	\$0	\$0	В
Mitchell Specialty						20.00	0.07%	0.00%	\$0	\$0	В
Model Finishing						25.00	0.09%	0.09%	\$8,127	\$3,545	\$11,673
Monitor Systems	4.00	0.18%	0.18%	\$16,573	\$7,296	4.00	0.01%	0.01%	\$1,300	\$567	\$25,736
Moore Products	73.00	3.20%	3.27%	\$302,456	\$133,150	73.00	0.26%	0.27%	\$23,732	\$10,352	\$469,691
Morning Call						355.00	1.29%	1.33%			Α
N G K Metals						145.00	0.53%	0.54%	\$47,139	\$20,563	\$67,702
N W Controls	4.00	0.18%	0.18%			374.59	1.36%	1.40%			Α
Napp Chemical						67.00	0.24%	0.25%	\$21,782	\$9,502	\$31,283
Narco Avionics						19.00	0.07%	0.07%	\$6,177	\$2,694	\$8,871
National Computer Systems						1.00	0.00%	0.00%		,	D
National Metal Crafters						16.00	0.06%	0.06%	\$5,202	\$2,269	\$7,471
National Products				•		1.00	0.00%	0.00%			D
National Solvents Inc.						156.00	0.57%	0.00%	\$0	\$0	В
Netzsch Inc.				×,		110.00	0.40%	0.41%	\$35,761	\$15,599	\$51,360
Neutronics				k a		10.00	0.04%	0.04%	\$3,251	\$1,418	\$4,669

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Generator Name	FDA Drums	FDA %	Revised FDA %	FDA Cost	FDA Premium	MPA Drums	MPA %	Revised MPA %	MPA Cost	MPA Premium	Generator Total De Minimis Payment
Ni-Chro						3.00	0.01%	0.01%	\$975	\$425	\$1,401
Norco Finishing						11.00	0.04%	0.04%	\$3,576	\$1,560	\$5,136
North Industrial Chemicals						60.00	0.22%	0.22%			С
North Penn Polishing & Plating						52.55	0.19%	0.20%	\$17,084	\$7,452	\$24,536
Olympic Tool & Machine Co.						16.00	0.06%	0.06%	\$5,202	\$2,269	\$7,471
Oxford Metal Products						17.00	0.06%	0.06%	\$5,527	\$2,411	\$7,937
PHLInc.				•		2.00	0.01%	0.01%	\$650	\$284	\$934
PP&L Northern Div. S.C.						257.27	0.93%	0.96%			Α
Paris Business Forms						2.00	0.01%	0.01%	\$650	\$284	\$934
Penflex Inc.	42.00	1.84%	1.88%	\$174,016	\$76,607	125.31	0.45%	0.47%	\$40,738	\$17,771	\$309,131
Penguin Industries						119.00	0.43%	0.45%	\$38,687	\$16,876	\$55,562
Penn Airborn Product						15.31	0.06%	0.06%	\$4,977	\$2,171	\$7,148
Penn Dye & Finishing						15.00	0.05%	0.06%	\$4,876	\$2,127	\$7,004
Pennsbury Manufacturing						32.00	0.12%	0.00%	\$0	\$0	В
Pennwalt Corp.						17.00	0.06%	0.06%	\$5,527	\$2,411	\$7,937
Penske V.D.A						8.00	0.03%	0.03%	\$2,601	\$1,135	\$3,735
Pepco Manufacturing Co.						2.00	0.01%	0.01%	\$650	\$284	\$934
Peripheral Dynamics						3.00	0.01%	0.01%	\$975	\$425	\$1,401
Perkin-Elmer						1.00	0.00%	0.00%			D
Permutit/Sybron Corp.						3.00	0.01%	0.01%	\$975	\$425	\$1,401
Peter Paul Cadbury Co.						2.00	0.01%	0.01%	\$650	\$284	\$934
Petrocon	35.00	1.53%	1.57%	\$145,013	\$63,839	35.00	0.13%	0.13%	\$11,378	\$4,963	\$225,194
Petter Engraving Inc.						2.04	0.01%	0.01%	\$663	\$289	\$952
Phila. Electric Co. Oregon Maint. Shops						34.45	0.12%	0.13%	\$11,200	\$4,885	\$16,085
Philadelphia Rust Proof Co. Inc.						21.00	0.08%	0.08%	\$6,827	\$2,978	\$9,805
Philco Ford	6.00	0.26%	0.27%	\$24,859	\$10,944	6.00	0.02%	0.02%	\$1,951	\$851	\$38,605
Phillips & Jacob	4.00	0.18%	0.18%			4.00	0.01%	0.01%			C

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D De micromis party.

(By Alphabetical Listing)

ORIGINAL

Generator Name	FDA Drums	FDA %	Revised FDA %	FDA Cost	FDA Premium	MPA Drums	MPA %	Revised MPA %	MPA Cost	MPA Premium	Generator Total De Minimis Payment
Photofabrication Chem & Equip						7.19	0.03%	0.03%	\$2,337	\$1,020	\$3,357
Photolastic Inc.	11.00	0.48%	0.49%	\$45,576	\$20,064	11.00	0.04%	0.04%	\$3,576	\$1,560	\$70,775
Pitman Corp.						47.00	0.17%	0.18%	\$15,280	\$6,665	\$21,945
Plate Crafters Inc.						16.00	0.06%	0.06%	\$5,202	\$2,269	\$7,471
Plymouth Tube	9.00	0.39%	0.40%			566.37	2.05%	2.12%			Α
Pocono Foundry Inc.						1.00	0.00%	0.00%			D
Polysciences						184.00	0.67%	0.69%	\$59,818	\$26,094	\$85,912
Ponderosa Disposal Co.						10.00	0.04%	0.00%			C, B
Porter Instruments						228.27	0.83%	0.85%			A
Precision Arts Mfg.						3.00	0.01%	0.01%	\$975	\$425	\$1,401
Princo Instruments Inc.						79.00	0.29%	0.30%	\$25,683	\$11,203	\$36,886
Prodelin Inc.						9.00	0.03%	0.03%	\$2,926	\$1,276	\$4,202
Pyco Inc.						5.00	0.02%	0.02%	\$1,625	\$709	\$2,335
Quaker City Chemicals	7.00	0.31%	0.31%			268.09	0.97%	1.00%			C, A
R & E Martin, Inc.						116.29	0.42%	0.44%			С
RCA	32.00	1.40%	1.43%	\$132,584	\$58,367	177.00	0.64%	0.66%	\$57,542	\$25,101	\$273,594
R C Kletzing						2.50	0.01%	0.01%	\$813	\$355	\$1,167
R D L Inc.						23.00	0.08%	0.09%	\$7,477	\$3,262	\$10,739
R. R. Donnelley & Sons, Inc.						27.00	0.10%	0.10%	\$8,778	\$3,829	\$12,607
Reilly Plating						430.00	1.56%	1.61%			Α
Repco	9.00	0.39%	0.00%	\$0	\$0	14.00	0.05%	0.00%	\$0	\$0	В
Resource Technology Services, Inc.						473.72	1.72%	1.77%			C, A
Reynolds Cleaners						5.00	0.02%	0.02%	\$1,625	\$709	\$2,335
Reynolds Metals						9.00	0.03%	0.03%	\$2,926	\$1,276	\$4,202
Richard Hurst					*	4.08	0.01%	0.00%	\$0	\$0	В
SGL						4.00	0.01%	0.01%	\$1,300	\$567	\$1,868
S K F Industries Inc.						133,36	0.48%	0.50%	\$43,355	\$18,912	\$62,267

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D De micromis party.

Generator Name	FDA Drums	FDA %	Revised FDA %	FDA Cost	FDA Premium	MPA Drums	MPA %	Revised MPA %	MPA Cost	MPA Premium	Generator Total De Minimis Payment
S P D Technologies						87.00	0.32%	0.33%	\$28,284	\$12,338	\$40,621
S P S Technologies						167.00	0.60%	0.63%	\$54,291	\$23,683	\$77,974
Sandvik, Inc.						70.90	0.26%	0.27%	\$23,049	\$10,055	\$33,104
Sanivan Labs						4.00	0.01%	0.01%	\$1,300	\$567	\$1,868
Schmidt Brewery Co.						1.00	0.00%	0.00%			D
Schramm Inc.						1.00	0.00%	0.00%			D
Scotco Design Group Inc.						69.00	0.25%	0.26%	\$22,432	\$9,785	\$32,217
Scott Paper Corp.						4.00	0.01%	0.01%	\$1,300	\$567	\$1,868
Sermetal						6.00	0.02%	0.02%	\$1,951	\$851	\$2,801
Shared Medical Systems	•					3.27	0.01%	0.01%	\$1,063	\$464	\$1,527
Sharples, Inc.						16.00	0.06%	0.06%	\$5,202	\$2,269	\$7,471
Shur-Kut Supply Corp.						7.00	0.03%	0.03%	\$2,276	\$993	\$3,268
Sikkens Co.						18.00	0.07%	0.07%	\$5,852	\$2,553	\$8,404
Silvine						7.00	0.03%	0.03%	\$2,276	\$993	\$3,268
Simco Company Inc.						4.52	0.02%	0.02%	\$1,469	\$641	\$2,110
Simon Wrecking Company Inc.	715.51	31.33%	32.00%			983.51	3.56%	3.68%			Α
Simonetta Brothers						53.26	0.19%	0.00%	\$0	\$0	В
Simpson Sign Co.						16.52	0.06%	0.00%	\$0	\$0	В
Singer Co.						3.00	0.01%	0.01%	\$975	\$425	\$1,401
Solar Atmospheres						4.00	0.01%	0.01%	\$1,300	\$567	\$1,868
Solatario						57.00	0.21%	0.00%	\$0	\$0	В
Solid State Scientific						32.00	0.12%	0.12%	\$10,403	\$4,538	\$14,941
Sonic Instruments						15.00	0.05%	0.06%	\$4,876	\$2,127	\$7,004
Specialty Castings Inc.				4		. 33.00	0.12%	0.12%	\$10,728	\$4,680	\$15,408
Specialty Glass Products						1.00	0.00%	0.00%			D
Sperry Univac						2.00	0.01%	0.01%	\$650	\$284	\$934
Spra-Fin Inc.						72.41	0.26%	0.27%	\$23,540	\$10,269	\$33,809

Superceding 4/27/98 VRS

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D De micromis party.

Generator Name	FDA Drums	FDA %	Revised FDA %	FDA Cost	FDA Premium	MPA Drums	MPA %	Revised MPA %	MPA Cost	MPA Premium	Generator Total De Minimis Payment
						· -					
Sprague-Griffiths Div.						9.00	0.03%	0.03%	\$2,926	\$1,276	\$4,202
Stein Seal Co.						138.00	0.50%	0.52%	\$44,863	\$19,570	\$64,434
Sterling Fleishman Co.						3.11	0.01%	0.01%	\$1,011	\$441	\$1,452
Storm Weather Products						26.00	0.09%	0.10%	\$8,453	\$3,687	\$12,140
Sunroc Corp.	52.00	2.28%	2.33%			358.00	1.30%	1.34%			А
Suntemp Industries	9.00	0.39%	0.00%	\$0	\$0	9.00	0.03%	0.00%	\$0	\$0	В
Superior Metal Products						58.00	0.21%	0.22%	\$18,856	\$8,225	\$27,081
Superior Tube	21.00	0.92%	0.94%	\$87,008	\$38,303	71.00	0.26%	0.27%	\$23,082	\$10,069	\$158,462
Sweda/Hugin Group						4.00	0.01%	0.01%	\$1,300	\$567	\$1,868
Sweda/Litton						25.00	0.09%	0.09%	\$8,127	\$3,545	\$11,673
Syntex/Star Grouping						725.00	2.63%	2.72%			Α
Syntex Dental Products						115.00	0.42%	0.43%			Α
Star Dental Corporation						610.00	2.21%	2.28%			Α
Synthane Taylor Corp.						71.00	0.26%	0.27%	\$23,082	\$10,069	\$33,151
T R W Inc.						0.45	0.00%	0.00%			D
Techalloy Inc.						11.67	0.04%	0.04%	\$3,794	\$1,655	\$5,449
Technical Products						14.00	0.05%	0.05%	\$4,551	\$1,985	\$6,537
Technitrol	10.00	0.44%	0.45%	\$41,432	\$18,240	10.00	0.04%	0.04%	\$3,251	\$1,418	\$64,341
Tele Dynamics						6.00	0.02%	0.02%	\$1,951	\$851	\$2,801
Telegenix Inc.						30.00	0.11%	0.11%	\$9,753	\$4,254	\$14,007
Thermoseal Glass Corporation						2.00	0.01%	0.01%	\$650	\$284	\$934
Thomson Engineering Co.	0.02	0.00%	0.00%			0.02	0.00%	0.00%			D
Transducer Systems Inc.						17.00	0.06%	0.06%	\$5,527	\$2,411	\$7,937
Trend Instruments						31.18	0.11%	0.12%	\$10,137	\$4,422	\$14,558
Troemner, Henry						3.00	0.01%	0.01%	\$975	\$425	\$1,401
Tube Methods						1.00	0.00%	0.00%		٠,	D

<sup>\*</sup> Superceding 4/27/98 VRS

A De maximus party and does not qualify for de minimis settlement offer.

B Party has been identified as an orphan.

C Total payment for broker/transporter is detailed on the separate Broker/Transporter Volumetric Ranking Summary.

D De micromis party.

Generator Name	FDA Drums	FDA %	Revised FDA %	FDA Cost	FDA Premium	MPA Drums	MPA %	Revised MPA %	MPA Cost	MPA Premium	Generator Total De Minimis Payment
	Diums		104 /6			Diulis		WIFA 78			
Tudor Tech Inc.						1.00	0.00%	0.00%			D
U S A Ardec						11.00	0.04%	0.04%	\$3,576	\$1,560	\$5,136
U S Electronic Services Corp.	19.00	0.83%	0.00%	\$0	\$0	19.00	0.07%	0.00%	\$0	\$0	В
United Chem-Con Corp.						21.00	0.08%	0.00%	\$0	\$0	В
United Contamination Controls Inc.						4.00	0.01%	0.01%	\$1,300	\$567	\$1,868
USG Grouping						586.40	2.12%	2.20%			А
U S G Interiors						182.00	0.66%	0.68%			А
Floor Systems Inc.						71.40	0.26%	0.27%		•	Α
Donn Corporation						292.00	1.06%	1.09%			Α
Davey Products						41.00	0.15%	0.15%			Α
Valley Forge Laboratories, Inc.						7.00	0.03%	0.03%	\$2,276	\$993	\$3,268
Valley Forge Tape & Label Co.						122.36	0.44%	0.46%	\$39,779	\$17,352	\$57,131
Victualic Company of America						9.00	0.03%	0.03%	\$2,926	\$1,276	\$4,202
Vishay Resistive Systems						241.00	0.87%	0.90%			· А
Viz Manufacturing	104.00	4.55%	4.65%			819.84	2.97%	3.07%			Α
Waste Conversion						104.00	0.38%	0.39%			С
Wave Energy Systems					•	3.00	0.01%	0.00%	\$0	\$0	В
Welding Co.						1.00	0.00%	0.00%			. <b>D</b> .
Welex Inc.						61.00	0.22%	0.23%	\$19,831	\$8,651	\$28,482
Westcode Inc.						28.22	0.10%	0.11%	\$9,174	\$4,002	\$13,176
Western Electric	139.00	6.09%	6.22%			2083.00	7.54%	7.80%			A
Westinghouse						23.00	0.08%	0.09%	\$7,477	\$3,262	\$10,739
Wilkinson Industries						3.00	0.01%	0.00%	\$0	\$0	В
Wittronics						0.30	0.00%	0.00%			D
Woodstream Corp.						5.00	0.02%	0.02%	\$1,625	\$709	\$2,335
Xynatech Inc.						39.00	0.14%	0.15%	\$12,679	\$5,531	\$18,210

Superceding 4/27/98 VRS

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B Party has been identified as an orphan.

C Total payment for broker/transporter is detailed on the separate Broker/Transporter Volumetric Ranking Summary.

D De micromis party.

Generator Name	FDA Drums	FDA %	Revised FDA %	FDA Cost	FDA´ Premium	MPA Drums	MPA %	Revised MPA %	MPA Cost	MPA Premium	Generator Total De Minimis Payment
Yuasa-Exide Battery Corp.						18.13	0.07%	0.07%	\$5,894	\$2,571	\$8,465
Zenith Products Corp.						63.00	0.23%	0.24%	\$20,481	\$8,934	\$29,415
De Minimis Total:	573.00	25.09%	23.48%	\$2,158,627	\$950,287	9854.37	35.69%	33.51%	\$2,795,132	\$1,219,287	\$7,123,333
Total:	2283.71	100.00%	100.00%	•		27608.87	100.00%	100.00%			

<sup>\*</sup> Superceding 4/27/98 VRS

A De maximus party and does not qualify for de minimis settlement offer.

B Party has been identified as an orphan.

C Total payment for broker/transporter is detailed on the separate Broker/Transporter Volumetric Ranking Summary.

D De micromis party.

# Attachment D

Comprehensive Mailing List (All Site PRPs)

Comprehensive Mailing List (Alphabetical Order)

PAGE: 1 11/30/98

ORIGINAL

A. Duie Pyle Mr. Peter Latta, President 650 Westown Road West Chester. PA 19382

\*\* A I W Frank

A & J Screw Machine Products Mr. Joseph A. Harmer 32 Hamilton Street P.O. Box 278 Chalfont, PA 18914-2804

A & J Screw Machine Products Mr. Joseph A. Harmer 24 Hillside Avenue Chalfont, PA 18914-2804

A. Johnson & Company Incorporated President 215 Welsh Pool Road Lionville, PA 19353

A & L Handles Mr. Philip K. Stonier, Vice President 244 Shoemaker Road Pottstown, PA 19464

A & L Handles c/o Drinker, Biddle, & Reath, LLP Andrew Foster, Esq. Philadelphia National Bank Building 1345 Chestnut Street Philadelphia, PA 19107-3496 A.S. Koch Corporation c/o Syntex Dental Corporation c/o Heller Ehrman White & McAuliffe Charles M. Hungerford, Esq. 525 University Avenue Palo Alto, CA 94301-1900

A.S. Koch Corporation c/o Syntex Dental Corporation President P.O. Box 896 Valley Forge, PA 19134

A.S. Koch Corporation c/o Syntex Dental Corporation Mark Stevens, Esq. c/o Langsam, Stevens, & Morris 1616 Walnut Street, Suite 812 Philadelphia, PA 19103

Accumetrics Mr. Paul Pitcher, President 134 Adams Street Royersford, PA 19468

\* Accuracy Scientific

Accuracy Scientific c/o Accuracy Scientific Instruments Mr. Frank Kleine, President 17 Piney Road Asheville, NC 29906

Ace Service Corporation President 1924 South Delaware Avenue Philadelphia, PA 19148

Address investigation currently being conducted.

<sup>\*\*</sup> Party has been identified as an orphan.

Comprehensive Mailing List (Alphabetical Order)

PAGE: 2 11/30/98

**ORIGINAL** 

Acro Labels Mr. Bob Reagan, President 2531 Wyandotte Road Willow Grove, PA 19090

\*\* Aero Plating

Acro Labels c/o Obermayer, Rebmann, Maxwell, & Hippel Daniel F. Schranghamer, Esq. One Penn Center - 19th Floor 1617 John F. Kennedy Boulevard Philadelphia, PA 19103-1895

\*\* Agitar, Div. of Air Buensod Incorporated

Action Manufacturing Company Mr. Arthur Mattia, President 100 East Erie Avenue Philadelphia, PA 19134 Airline Hydraulics Corporation Mr. Joseph Laughran, President I-95 & Street Road Bensalem, PA 19020

Action Manufacturing Company c/o Ballard, Spahr, Andrew, & Ingersoll Henry Weiss, Esq. 1735 Market Street 51st Floor Philadelphia, PA 19103

Airworks c/o General Electric Kirk R. McFarlane, Esq. 640 Freedom Business Center King of Prussia, PA 19406

\*\* ADEC

Airworks c/o Shanley & Fisher Richard A. Levao, Esq. 131 Madison Avenue Morristown, NJ 07962-1979

Adelphia Graphic Systems (AGS)
Ms. Paula Inforzato, Vice President
302 Commerce Drive
Exton, PA 19341

Airworks c/o UNC Airworks Ted Coyle, Esq. 101 East Orden Boulevard Millville, NJ 08332

Adelphia Graphic Systems (AGS)
Doug Blazey, Esq.
c/o Ellliot Reihner Siedzikowski & Egan, P.C.
Union Meeting Corporate Center IV
925 Harvest Drive, P.O. Box 3010
Blue Bell, PA 19422

Albright Paper & Box Corporation Mr. Gary Gross, President 14 Robinson Street Pottstown, PA 19464

<sup>\*</sup> Address investigation currently being conducted.

<sup>\*\*</sup> Party has been identified as an orphan.

Comprehensive Mailing List (Alphabetical Order)

PAGE: 3 11/30/98 ORIGINAI

ALCOA Mr. Ken Mcelhaeny, President 3000 State Drive Lebanon, PA 17042 American Electronics Laboratories c/o AÈL Industries Patrick S. Till Environmental/Safety Engineer 305 Richardson Road Lansdale, PA 19446-1485

ALCOA c/o LeBoeuf, Lamb, Greene, & MacRae Patricia A. Shaw, Esq. 601 Grant Street Pittsburgh, PA 15219-4405

\*\* Ames Supply

Alfa-Laval Separation Incorporated c/o Tetra-Laval Mr. Quinton Jackson, President 9201 Wilnot Road P.O. Box 840 -Kenosha, WI 53141

Ametek Incorporated Mr. Thomas A. Deeney Director of Corporate Compliance Station Square Paoli, PA 19301

Alfa-Laval Separation Incorporated c/o Whitman, Oskerman, & Hanna Maria Villa, Esq. One Commerce Plaza Albany, NY 12260 Ametek Incorporated c/o Stroock & Stroock & Lavan Madeline R. Berg, Esq. 180 Maiden Lane New York, NY 10038

Allister Manufacturing c/o Allstar Manufacturing President 311 Willowbrook Lane West Chester, PA 19383 AMF Incorporated c/o Minstar Incorporated Ms. Mary McConnell, Vice President 100 South 5th Street, Suite 2400 Minneapolis, MN 55452

Amchem c/o Henkel Corporation Ken Arnold, Esq. 49 Valley Drive Furlong, PA 18925

AMP Corporation Mr. William Hudson, President P.O. Box 3608 Harrisburg, PA 17105

Amchem c/o Henkel Corporation Juliet Richter, Esq. 2200 Renaissance Boulevard Suite 200 Gulph Mills, PA 19406

AMP Corporation c/o Montgomery, McCracken, Walker, & Rhoades, LLP Timothy Bergere, Esq. 123 South Broad Street Philadelphia, PA 19109

<sup>\*</sup> Address investigation currently being conducted.

<sup>\*\*</sup> Party has been identified as an orphan.

Comprehensive Mailing List (Alphabetical Order)

PAGE: 4 11/30/98 ORIGINAL

Amuneal Manufacturing Company Mr. Larry Maltin, President 4737 Darrah Street Philadelphia, PA 19124-2705 Armstrong Cork Company c/o Armstrong Worldwide Industries Mr. George Lorch, President P.O. Box 3001 Lancaster, PA 17604

Anchor Darling Company Mr. Brian McGarvey, President 7 East Wynnewood Road Wynnewood, PA 19096

\* Artco

Anchor Darling Company c/o John A. Kenney Jr. Law Offices John A. Kenney Jr., Esq. 3 Radnor Corporate Center, Suite 400 P.O. Box 6760 Radnor, PA 19087

Asplundh Manufacturing Company Mr. Carl Asplundh, President 708 Blair Mill Road Willow Grove, PA 19090

Angelo c/o Angelo Brothers Company Barton A. Pasternak, Esq. Vice President & General Counsel 12401 McNulty Road Philadelphia, PA 19154-1099

Asplundh Manufacturing Company c/o Drinker, Biddle, & Reath, LLP Andrew Foster, Esq. Philadelphia National Bank Building 1345 Chestnut Street Philadelphia, PA 19107-3496

Antenna Corporation Mr. Joseph Bohar, CEO 314 Ruth Road Harleysville, PA 19438

\*\* Aston-Hill Company

Ark Products Mr. Ronald A. King Vice President 3320 Willow Street Pike South Willow Street, PA 17584 Athena Controls c/o Inductotherm Industries Incorporated J. D. Visco 10 Indel Avenue Rancocas, NJ 08073

Armstrong Cork Company c/o Armstrong Worldwide Industries Douglas S. Brossman, Esq. P.O. Box 3001 Lancaster, PA 17604 Athena Controls c/o Inductotherm Industries Incorporated James J. Himsworth, Esq. Masterson, Braufeld, Himsworth, & Maguire One Montgomery Plaza, Suite 702 Norristown, PA 19401

<sup>\*</sup> Address investigation currently being conducted.

<sup>\*\*</sup> Party has been identified as an orphan.

Comprehensive Mailing List (Alphabetical Order)

PAGE: 5 11/30/98 ORIGINAL

\* Auto Pack

Aydin c/o Aydin Computer Robert Clancey, Esq. 700 Dresher Road Horsham, PA 19044

Aydin c/o Aydin Computer Mr. Gary Boswell, President 700 Dresher Road Horsham, PA 19044

B.P. Oil Ms. Cheryl A. Foerstner Law Department 200 Public Square 11-3454-C Cleveland, OH 44114-2375

Balderston, Lloyd 258 North Phoenixville Pike Malvern, PA 19355

Balderston, Lloyd c/o Paul Boni, Esq. The Dorchester Building Penthouse Suite 226 West Rittenhouse Square Philadelphia, PA 19103

Balderston, Ruth 256 North Phoenixville Pike Malvern, PA 19355 Balderston, Ruth c/o Paul Boni, Esq. The Dorchester Building Penthouse Suite 226 West Rittenhouse Square Philadelphia, PA 19103

Beckett Corporation c/o Compliance Management International Mark C. Hammond, Esq. 721 Dresher Road Suite 1200 Horsham, PA 19044

Beckett Corporation c/o Obermayer, Rebmann, Maxwell, & Hippel Claire M. Diemer, Esq. One Penn Center, 19th Floor 1617 John F. Kennedy Boulevard Philadelphia, PA 19103-1895

Beemer Engineering c/o Beemer Precision Company Incorporated Mr. H. Meyers, President 230 New York Drive Fort Washington, PA 19034

Beemer Engineering c/o Hardin, Kundla, McKeon, Poletto, & Polifroni Jeffery H. Goldsmith, Esq. 673 Morris Avenue P.O. Box 730 Springfield, NJ 07081-0730

Bendtru Company c/o Powers Equipment Company Incorporated Mr. E. Robert Powers, CEO 500 Jacksonville Road Hatboro, PA 19040

Berg Laboratories President 130-C Harding Avenue Bellmawr, NJ 08031

- \* Address investigation currently being conducted.
- \*\* Party has been identified as an orphan.

Comprehensive Mailing List (Alphabetical Order)

PAGE: 6 11/30/98 ORIGINAL

Biddle Instruments Company c/o Aval International Mr. Tom Evans, President 510 Township Line Road Blue Bell, PA 19422

Boekel Industries Mr. Al Bush, President 855 Pennsylvania Avenue Feasterville, PA 19053

Biddle Instruments Company c/o McCuthen, Doyle, Brown, & Enersen, LLP Patrick O. Cavanaugh, Esq. 1101 Pennsylvania Avenue, NW Suite 800 Washington, DC 20004-2514

\* Boyertown Packing Company

Bilgram Gear Company Mr. David Winther, President 8 Union Hill Road West Conshohocken, PA 19428 Brandt Corporation c/o Foley & Lardner Douglas B. Clark, Esq. 150 East Gilman Street P.O. Box 1497 Madison, WI 53701-1497

\* Bishop Tube Company

Brandt Corporation c/o Lefebure Mr. Joel Patton, President 308 29th Street NE Cedar Rapids, IA 52460

Bo Peep Cleaners President 18 Doylestown Shopping Center Doylestown, PA 18901

\*\* Brittany's Ltd.

Boeing c/o Boeing Company President Route 291 & Industrial Parkway Ridley Park, PA 19078

Brooks Instrument Mr. Robert Heffernan, President 407 West Vine Street Hatfield, PA 19440

Boeing c/o Boeing Company Nicholas Massington, Esq. P.O. Box 16858 (Mail Code P-31-60) Philadelphia, PA 19142 Brooks Instrument c/o Shaw, Pitman, Potts, & Trowbridge Jennifer Giblin, Esq. 2300 N Street, NW Washington, DC 20037

<sup>\*</sup> Address investigation currently being conducted.

<sup>\*\*</sup> Party has been identified as an orphan.

Comprehensive Mailing List (Alphabetical Order)

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ORIGINAL

Brumbaugh Industries Mr. Charles Brumbaugh, President Route 291 Eddystone, PA 19022

Brumbaugh Industries c/o Manta & Welge Francis G. X. Pilleggi, Esq. Mellon Bank Center, Suite 1400 919 Market Street Wilmington, DE 19801

Budd Company Mr. David Williams, President P.O. Box 2601 Troy, MI 48007

Budd Company Jennifer Berke, Esq. 2450 Hunting Park Avenue Philadelphia, PA 19129

Bunnell Plastics Incorporated c/o Environmental Law Practice Abbie Eremich, Esq. 19 Hillside Avenue Milford, CT 06460-7806

Bunnell Plastics Incorporated c/o Furon Company Mr. J. Michael Hagan, CEO 29982 Ivy Glenn Drive Laguna Indel, CA 92677

Burroughs Corporation c/o Unisys Corporation Aria A. Klees, Esq. Environmental Health & Safety Township Line & Union Meeting Roads Blue Bell, PA 19424-0001 Burroughs Corporation c/o Unisys Corporation Mr. James Unruh, CEO Township Line & Union Meeting Roads Blue Bell, PA 19424-0001

C.K. Systematics Incorporated c/o C.K. Worldwide Mr. Arthur Klepper, President P.O. Box 1636 Auburn, WA 98071

C.K. Systematics Incorporated c/o Systematics Incorporated Mr. James L. Conley, CEO 1025 Saunders Lane West Chester, PA 19380

Cabot Berylco Incorporated c/o Cabot Corporation Mr. Gene Lillie, President 157 Concord Road Billerica, MA 01821

Cabot Berylco Incorporated c/o Morgan, Lewis & Bockius LLP Frank Thomas, Esq. 2000 One Logan Square Philadelphia, PA 19103-6993

Cabot Company Mr. Gene Lillie, President 157 Concord Road Billerica, MA 01821

Cabot Company c/o Morgan, Lewis & Bockius LLP Frank Thomas, Esq. 2000 One Logan Square Philadelphia, PA 19103-6993

<sup>\*</sup> Address investigation currently being conducted.

<sup>\*\*</sup> Party has been identified as an orphan.

Comprehensive Mailing List (Alphabetical Order)

PAGE: 8 11/30/98

ORIGINAL

Cabot Wrought Products President Tuckerton Road P.O. Box 13367 Reading, PA 19612-3367 Chem-Par c/o Liphatech Dr. Author A. Nethery Vice President of Research & Development 3101 West Custer Avenue Milwaukee, WI 53209

Cabot Wrought Products c/o Morgan, Lewis & Bockius LLP Frank Thomas, Esq. 2000 One Logan Square Philadelphia, PA 19103-6993

\* Chem-Solv

Camdel Metals Mr. Millard Vaughn, Plant Manager Drawer H Revco Industrial Park Camden, DE 19934

Chemclene Corporation Mr. Lloyd Balderston, President 258 North Phoenixville Pike Malvern, PA 19355

Cantol Incorporated Mr. Elmer E. Snethen Executive Vice President 2211 North American Street Philadelphia, PA 19153 Chemclene Corporation c/o Paul Boni, Esq. The Dorchester Building Penthouse Suite 226 West Rittenhouse Square Philadelphia, PA 19103

Cantol Incorporated c/o Mesiror, Gelman, Jaffe, Cramer, & Jamieson Mark R. Rosen, Esq. 1735 Market Street Philadelphia, PA 19103-7598 Chester County Intermediate Unit Mr. John Baillie, President K-D Markely School Church Road Malvern, PA 19355

Carvel Hall Incorporated c/o Syratech Incorporated Mr. Leonard Florence, President 175 McClellan Highway East Boston, MA 02128-9115 Chester County Intermediate Unit c/o Lamb, Windle, & McErlene Vincent Pompo, Esq. 24 East Market Street Box 565 West Chester, PA 19381

Chem Cell Corporation Mr. Charles Tirell, President P.O. Box 296 Hatboro, PA 19040 Chobert Associates c/o Chobert Manufacturing Corporation Mr. Frank J. Kearney, Jr. Vice President 1018 Sanders Lane West Chester, PA 19380

Address investigation currently being conducted.

<sup>\*\*</sup> Party has been identified as an orphan.

Comprehensive Mailing List (Alphabetical Order)

PAGE: 9 11/30/98 ORIGINAL

Chrono-Log Corporation Mr. Arthur Freilich, President 2 West Park Road Havertown, PA 19083-4691 Concurrent Computer Corporation Karen G. Fink, Esq. Vice President & General Counsel 2101 West Cypress Creek Road Fort Lauderdale, FL 33309

Cincinnati Time c/o Time & Parking Controls Mr. Robert Heil, Vice President 7716 West Chester Pike P.O. Box 232 Upper Darby, PA 19082

Concurrent Computer Corporation c/o Crowell & Moring LLP R. Timothy McCrum, Esq. 1001 Pennsylvania Avenue, NW Washington, DC 20004-2595

Classic Coachworks Mr. Harry Smith, President 7310-18 West Chester Pike Upper Darby, PA 19082

\*\* Connecticut Mixed

Clifton Precision c/o Litton Industries Incorporated Jill Palmer, Esq. Senior Environmental Counsel 1725 Jefferson Davis Highway, Suite 601 Arlington, VA 22202 Container Research Corporation Mr. Christopher J. Pass Industrial Engineer Hollow Hill Road P.O. Box 0159 Glen Riddle, PA 19037

Coatings For Industry Incorporated Mr. James Klotz, President 319 Township Line Road Souderton, PA 18964 Contamination Control Incorporated c/o Microdot Connectors Mr. Ernest Hartland, President 306 Pasadena Avenue South Pasadena, CA 91030

Coatings For Industry Incorporated c/o Jerkins, Siergiej, & Smith Michael F. Smith, Esq. 140 East Butler Avenue P.O. Box 387 Ambler, PA 19002-0387

\* Continental Vanguard Incorporated

Cobra Wire & Cable Company Mr. Bart Reitter, President 2930 Turnpike Drive Hatboro, PA 19040

\*\* Control Switch

<sup>\*</sup> Address investigation currently being conducted.

<sup>\*\*</sup> Party has been identified as an orphan.

Comprehensive Mailing List (Alphabetical Order)

PAGE: 10 11/30/98 ORIGINAL

Controls Service & Engineering President 300 Second Street New Cumberland, PA 17071 Danco Tool & Mold Company c/o Elliot D. Goldberg, Esq. 420 Russell Road Phoenixville, PA 19460

Cook Specialty Company Mr. Thomas A. Panzarella, President North Second Street P.O. Box 129 Green Lane, PA 18054-0129 Danco Tool & Mold Company Mr. Nicholas Fagan, President P.O. Box 448 Wheatland and Melon Avenue Phoenixville, PA 19460

Crown Marketing Equipment Company President 301 Ivyland Road Ivyland, PA 18974 Data Media Incorporated c/o DMC Incorporated Mr. Thomas Rainone, President 7025 Central Highway Pennsauken, NJ 08109

CSS International Corporation Mr. Roger T. Nazeley, President 2061 East Glennwood Avenue Philadelphia, PA 19124 Data Media Incorporated (DMC Incorporated) c/o Drinker, Biddle, & Reath, LLP Andrew Foster, Esq. Philadelphia National Bank Building 1345 Chestnut Street Philadelphia, PA 19107-3496

CW Industries
Mr. Kalman Lifson, President
130 James Way
Southampton, PA 18966

Davey Products c/o USG Interiors Incorporated Virginia Yang, Esq. 125 South Franklin Street Chicago, IL 60608-4678

Cyprus Foote Mineral Company c/o Chemetall Foote Nathaniel Chapin, Esq. Hunton & Williams 200 Park Avenue New York, NY 10166-0136 Davey Products c/o Wilbraham, Lawler, & Buba Kim Hollander, Esq. The Curtis Center 601 Walnut Street, Suite 450 W Philadelphia, PA 19106-3304

Cyprus Foote Mineral Company c/o Cyprus Amex Mineral Company Mr. Milton Ward, CEO P.O. Box 3299 91 East Mineral Circle Englewood, CO 80155

David K. Robson Incorporated Mr. Michael Anastas, President 738 Maryland Avenue Prospect Park, PA 19076

<sup>\*</sup> Address investigation currently being conducted.

<sup>\*\*</sup> Party has been identified as an orphan.

Comprehensive Mailing List (Alphabetical Order)

PAGE: 11 11/30/98

ORIGINAL

Decision Data c/o Decision One Mr. Steve Felice, President 50 East Swedesford Road Frasier, PA 19355 Defense Reutilization & Marketing Service for U.S. Navy Base c/o Eve Wilkerson-Barron, Esq. U.S. Department of Justice Environmental Defense Section 601 D Street Washington, DC 20004

Defense Reutilization & Marketing Service c/o Eve Wilkerson-Barron, Esq. U.S. Department of Justice Environmental Defense Section 601 D Street Washington, DC 20004

\*\* Delaware Container Co. Inc.

Defense Reutilization & Marketing Service for DRMO Knox c/o Eve Wilkerson-Barron, Esq. U.S. Department of Justice Environmental Defense Section 601 D Street Washington, DC 20004

Delbar Products
Mr. Craig Benfield
Environmental Safety Compliance Engineer
7th & Spruce Streets
Perkasie, PA 18944

Defense Reutilization & Marketing Service for DRMO Philadelphia c/o Eve Wilkerson-Barron, Esq. U.S. Department of Justice Environmental Defense Section 601 D Street Washington, DC 20004

\*\* Delco Wire & Cable, Inc./Delco Elec.

Defense Reutilization & Marketing Service for Madison, IN c/o Eve Wilkerson-Barron, Esq. U.S. Department of Justice Environmental Defense Section 601 D Street Washington, DC 20004

Delmaco Manufacturing Incorporated President 3 Cedar Creek Avenue Georgetown, DE 19947

Defense Reutilization & Marketing Service for Philadelphia Naval Shipyard c/o Eve Wilkerson-Barron, Esq. U.S. Department of Justice Environmental Defense Section 601 D Street Washington, DC 20004

Deltron Incorporated Mr. Aaron Anton, President P.O. Box 1369 North Wales, PA 19454

Defense Reutilization & Marketing Service for Picatinny Arsenal c/o Eve Wilkerson-Barron, Esq. U.S. Department of Justice Environmental Defense Section 601 D Street Washington, DC 20004

Dentronix Incorporated Ms. Cindy Monroe, President 101 Steamwhistle Drive Ivyland, PA 18974

<sup>\*</sup> Address investigation currently being conducted.

<sup>\*\*</sup> Party has been identified as an orphan.

Comprehensive Mailing List (Alphabetical Order)

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ORIGINAL

Dentronix Incorporated Elliott S. Fisher, Esq. 25 Skippack Pike Suite 203 Ambler, PA 19002

Dettra Flag Company Mr. Elmer Bauer, President P.O. Box 408 Oaks, PA 19456

DeVilbiss Company c/o DeVilbiss Healthcare Incorporated Mr. Ray Dyre, President P.O. Box 635 Somerset, PA 15501

DeVilbiss Company c/o Procopio, Cory, Hargreaves, & Savitch, LLP Robert G. Russell, Jr., Esq. 530 B Street, Suite 2100 San Diego, CA 92101-4469

Devon Apparel c/o Prentice Hall Corporation President 319 Market Street Harrisburg, PA 17101

Display Corporation of America c/o TSG Merchandising Incorporated Mr. Paul Schmidt, President 1250 Easton Road, Suite 200 Horsham, PA 19044

Diversified Electronic Corporation Mr. Bernard Shurman, President 4969 Wakefield Street Philadelphia, PA 19144 Diversified Electronic Corporation c/o Hale & Schenkman Russell Schenkman, Esq. 13 Roszell Road, Suite 225 Princeton, NJ 08540

Dixon Industries Corporation c/o Environmental Law Practice Abbey Eremich, Esq. 19 Hillside Avenue Milford, CT 06460-7806

Dixon Industries Corporation c/o Furon Company Mr. Jerry Noonan, President 29982 Ivy Glenn Drive Laguna Nigel, CA 92677

Doehler-Jarvis Mr. Robert J. Jacobson Director of Environmental Control P.O. Box 902 Toledo, OH 43697-0902

Donn Corporation c/o USG Interiors Incorporated Virginia Yang, Esq. 125 South Franklin Street Chicago, IL 60608-4678

Donn Corporation c/o Wilbraham, Lawler, & Buba Kim Hollander, Esq. The Curtis Center 601 Walnut Street, Suite 450 W Philadelphia, PA 19106-3304

\*\* Dorado Fabrics

<sup>\*</sup> Address investigation currently being conducted.

<sup>\*\*</sup> Party has been identified as an orphan.

Comprehensive Mailing List (Alphabetical Order)

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Drexelbrook Engineering Mr. Fred Maltby, CEO 205 Keith Valley Road Horsham, PA 19044

Drexelbrook Engineering c/o LeGros Law Partners Susan P. LeGros, Esq. 1000 Westlakes Drive Suite 275 Berwyn, PA 19312

\* Durawood

\*\* Dynamic Services

E. Hopkins Company Al Pappas, President 3427 South Lawrence Street Philadelphia, PA 19148

E.I.T. Incorporated c/o Enterra Instrumentation Technology Mr. Howard Lawrence, President P.O. Box 744
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<sup>\*</sup> Address investigation currently being conducted.

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Comprehensive Mailing List (Alphabetical Order)

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Comprehensive Mailing List (Alphabetical Order)

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Comprehensive Mailing List (Alphabetical Order)

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Comprehensive Mailing List (Alphabetical Order)

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<sup>\*</sup> Address investigation currently being conducted.

<sup>\*\*</sup> Party has been identified as an orphan.

Comprehensive Mailing List (Alphabetical Order)

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<sup>\*</sup> Address investigation currently being conducted.

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<sup>\*</sup> Address investigation currently being conducted.

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